

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 16639

TO: Kevin Weddington Location: rem/3A65/3C70

Art Unit: 1614

Wednesday, October 05, 2005

Case Serial Number: 10/802425

From: Mary Jane Ruhl

Location: Biotech-Chem Library

Remsen 1-A-62

Phone: 571-272-2524

maryjane.ruhl@uspto.gov

Search Notes

Examiner Weddington,

Here are the results for your recent search request.

Please feel free to contact me if you have any questions about these results.

Thank you for using STIC services. We appreciate the opportunity to serve you.

Sincerely,

Mary Jane Ruhl Technical Information Specialist STIC Remsen 1-A-62 Ext. 22524





STIC SEARCH RESULTS FEEDBACK FORM

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Questions about the scope or the results of the search? Contact the searcher or contact:

Mary Hale, Information Branch Supervisor Remsen Bldg. 01 D86 571-272-2507

Voluntary Results Feedback Form
> I am an examiner in Workgroup: Example: 1610
Relevant prior art found, search results used as follows:
102 rejection
☐ 103 rejection
☐ Cited as being of interest.
Helped examiner better understand the invention.
Helped examiner better understand the state of the art in their technology.
Types of relevant prior art found:
☐ Foreign Patent(s)
☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)
> Relevant prior art not found:
Results verified the lack of relevant prior art (helped determine patentability).
Results were not useful in determining patentability or understanding the invention.
Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library. Remsen Bidg.



ACCESS DB # 166392
PLEASE PRINT CLEARLY

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: V. Weddington Examiner #: 68082 Date: 9-20-05 Art Unit: 1614 Phone Number: 2-0587 Serial Number: 10 802, 425 Location (Bldg/Room#): Results Format Preferred (circle): PAPER DISK ***********************************
To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:
Title of Invention:
Inventors (please provide full names): Bonnie L. Bassler, Carol Dammel; Stephen Schauder
Jeffrey Skin, Michael G. Surette
Earliest Priority Date:
Search Topic: Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures between the subject matter to be searched. Include the elected species or structures between the subject matter to be searched.
WHAT IS CLAIMED IS:
1. A method for identifying a compound that regulates the activity of
autoinducer-2 comprising:
(a) contacting autoinducer-2 with the compound;
(b) measuring the activity of autoinducer-2 in the presence of the
compound and comparing the activity of autoinducer-2 obtained in the presence of the
compound to the activity of autoinducer-2 obtained in the absence of the compound;
and
(c) identifying a compound that regulates the activity of autoinducer-2.
2. The method of claim 1, wherein the autoinducer-2 is 4-hydroxy-5-methyl-2H-
furan-3-one.
3. The method of claim 1, wherein the contacting is in vivo.
4. The method of claim 1, wherein the contacting is in vitro.
5. The method of claim 1, wherein the regulation is by increasing the activity of
autoinducer-2.
6. The method of claim 1, wherein the regulation is by decreasing the activity of
autoinducer-2.
7. The method of claim 1, wherein the compound is a polypeptide.
8. The method of claim 1, wherein the compound is a small molecule.
Searcher: 9. The method of claim 1, wherein the compound is a nucleic acid.
Searcher Phone #:AA Sequence (#)Lexis/Nexis
Searcher Location:Structure (#)WestlawWWW/Internet
Date Searcher Picked Up:BibliographicIn-house sequence systems
Date Completed:LitigationCommercial Oligomer Score/Length SPDIEncode/Transl
earcher Prep & Review Time: Fulltext

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=> d his ful
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L4

(FILE 'HOME' ENTERED AT 17:13:11 ON 04 OCT 2005)

FILE 'HCAPLUS' ENTERED AT 17:13:57 ON 04 OCT 2005 1 SEA ABB=ON 2001:833256/AN Ll SELECT RN L1 1-1

FILE 'REGISTRY' ENTERED AT 17:14:29 ON 04 OCT 2005 L2 54 SEA ABB=ON (127-69-5/BI OR 13436-46-9/BI OR 15912-98-8/BI OR 18766-96-6/BI OR 18871-14-2/BI OR 19322-27-1/BI OR 200010-29-3/ BI OR 200010-31-7/BI OR 204514-85-2/BI OR 25564-22-1/BI OR 26494-13-3/BI OR 273912-12-2/BI OR 273912-13-3/BI OR 273912-14-4/BI OR 273912-15-5/BI OR 273912-16-6/BI OR 273912-17-7/BI OR 273912-18-8/BI OR 273912-19-9/BI OR 27538-10-9/BI OR 27538-11-0 /BI OR 2758-18-1/BI OR 29119-49-1/BI OR 33673-62-0/BI OR 35205-76-6/BI OR 3658-77-3/BI OR 373380-18-8/BI OR 373380-19-9/ BI OR 373380-20-2/BI OR 373380-21-3/BI OR 373380-22-4/BI OR 373380-23-5/BI OR 374557-49-0/BI OR 374579-09-6/BI OR 374579-10 -9/BI OR 374579-11-0/BI OR 374579-12-1/BI OR 374579-13-2/BI OR 4077-47-8/BI OR 488-10-8/BI OR 488-86-8/BI OR 50-99-7/BI OR 50632-57-0/BI OR 527-50-4/BI OR 54458-61-6/BI OR 5694-72-4/BI OR 59995-48-1/BI OR 60047-17-8/BI OR 68043-00-5/BI OR 69-53-4/B I OR 80436-90-4/BI OR 85721-33-1/BI OR 95962-14-4/BI OR

FILE 'HCAPLUS' ENTERED AT 17:14:37 ON 04 OCT 2005 1 SEA ABB=ON L1 AND L2 L3

FILE 'REGISTRY' ENTERED AT 17:23:16 ON 04 OCT 2005

1 SEA ABB=ON 19322-27-1/RN

E NUCLEIC ACID/CN

E NUCLEIC ACID/RN

E NUCLEIC ACID/RN

FILE 'REGISTRY' ENTERED AT 17:24:05 ON 04 OCT 2005 E NUCLEIC ACID/RN

1 SEA ABB=ON NUCLEIC ACIDS/CN L5

979-92-0/BI)

FILE 'HCAPLUS' ENTERED AT 17:25:30 ON 04 OCT 2005

L6

207491 SEA ABB=ON L2 OR ?AUTOINDUCER?(W)2 5704 SEA ABB=ON L6 AND (?POLYPEPTID? OR ?SMALL?(W)?MOLECUL? OR L5 L7 OR ?NUCLEIC?(W)?ACID?)

L8 29 SEA ABB=ON L7 AND (?ACTIVITY?)(W)(?INCREAS? OR ?DECREAS?)
904 SEA ABB=ON L7 AND (?PATHOGEN? OR ?BACT?) L9

FILE 'REGISTRY' ENTERED AT 17:41:20 ON 04 OCT 2005

FILE 'HCAPLUS' ENTERED AT 17:41:20 ON 04 OCT 2005 E BACTERIA+ALL

FILE 'REGISTRY' ENTERED AT 17:41:39 ON 04 OCT 2005 E BACTERIA/CN

FILE 'HCAPLUS' ENTERED AT 17:41:39 ON 04 OCT 2005

70 SEA ABB=ON L7 AND ?CONTACT? L10

E BACTERIA/CN

99 SEA ABB=ON L8 OR L10 L11

27 SEA ABB=ON L11 AND (?PATH? OR ?BACT?) 27 cils from CAPlus L12

FILE 'MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS' ENTERED AT 17:46:26 ON 04 OCT 2005 L13 16 SEA ABB=ON L12 16 DUP REMOV L13 (0 DUPLICATES REMOVED) 16 cits from above SPATFULL' ENTERED AT 17:48:14 ON 04 OCT 2005

Autobases L14FILE 'USPATFULL' ENTERED AT 17:48:14 ON 04 OCT 2005 1965 SEA ABB=ON L11 AND (?PATH? OR ?BACT?) L15 1485 SEA ABB=ON L15 AND ?NUCLEIC?(W)?ACID? 0 SEA ABB=ON L16 AND IN(W)(?VIVO? OR ?VITRO?) L16 L17 1311 SEA ABB=ON L16 AND (?VIVO? OR ?VITRO?) L18 ★ 1303 SEA ABB=ON L18 AND (?CONTROL? OR ?REGULAT?) L19 * Saved, should you want me to modify it for more results for you

FILE HCAPLUS

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FILE COVERS 1907 - 4 Oct 2005 VOL 143 ISS 15 FILE LAST UPDATED: 3 Oct 2005 (20051003/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 3 OCT 2005 HIGHEST RN 864406-23-5 DICTIONARY FILE UPDATES: 3 OCT 2005 HIGHEST RN 864406-23-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

* The CA roles and document type information have been removed from * the IDE default display format and the ED field has been added, * effective March 20, 2005. A new display format, IDERL, is now * available and contains the CA role and document type information. * *

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

FILE MEDLINE

FILE LAST UPDATED: 4 OCT 2005 (20051004/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow promt (=>). See also:

http://www.nlm.nih.gov/mesh/ http://www.nlm.nih.gov/pubs/techbull/nd04/nd04 mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS

FILE COVERS 1969 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 28 September 2005 (20050928/ED)

FILE RELOADED: 19 October 2003.

FILE EMBASE

FILE COVERS 1974 TO 29 Sep 2005 (20050929/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE JAPIO

FILE LAST UPDATED: 5 SEP 2005 <20050905/UP>

FILE COVERS APR 1973 TO APRIL 28, 2005

<<< GRAPHIC IMAGES AVAILABLE >>>

FILE JICST-EPLUS

FILE COVERS 1985 TO 3 OCT 2005 (20051003/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE USPATFULL

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 4 Oct 2005 (20051004/PD)

FILE LAST UPDATED: 4 Oct 2005 (20051004/ED)

HIGHEST GRANTED PATENT NUMBER: US6952836

HIGHEST APPLICATION PUBLICATION NUMBER: US2005217002
CA INDEXING IS CURRENT THROUGH 4 Oct 2005 (20051004/UPCA)
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 4 Oct 2005 (20051004/PD)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2005
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2005

>>>	USPAT2 is now available. USPATFULL contains full text of the	<<<
>>>	original, i.e., the earliest published granted patents or	<<<
>>>	applications. USPAT2 contains full text of the latest US	<<<
>>>	publications, starting in 2001, for the inventions covered in	<<<
>>>	USPATFULL. A USPATFULL record contains not only the original	<<<
>>>	published document but also a list of any subsequent	<<<
>>>	publications. The publication number, patent kind code, and	<<<
>>>	publication date for all the US publications for an invention	<<<
>>>	are displayed in the PI (Patent Information) field of USPATFULL	<<<
>>>	records and may be searched in standard search fields, e.g., /PN,	<<<
>>>	/PK, etc.	<<<
>>>	USPATFULL and USPAT2 can be accessed and searched together	<<<
>>>	through the new cluster USPATALL. Type FILE USPATALL to	<<<
>>>	enter this cluster.	<<<
>>>		<<<
>>>	Use USPATALL when searching terms such as patent assignees,	<<<
>>>	classifications, or claims, that may potentially change from	<<<
>>>	the earliest to the latest publication.	<<<

This file contains CAS Registry Numbers for easy and accurate substance identification.

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                 /BI OR 69-53-4/BI OR 80436-90-4/BI OR 85721-33-1/BI OR
                 95962-14-4/BI OR 979-92-0/BI)
L5
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L6
L7
                 ECUL? OR L5 OR ?NUCLEIC?(W)?ACID?)
L8
              29 SEA FILE=HCAPLUS ABB=ON L7 AND (?ACTIVITY?)(W)(?INCREAS? OR
                 ?DECREAS?)
              70 SEA FILE=HCAPLUS ABB=ON L7 AND ?CONTACT?
L10
             99 SEA FILE=HCAPLUS ABB=ON L8 OR L10 27 SEA FILE=HCAPLUS ABB=ON L11 AND (?PATH? OR ?BACT?)
L11
1.12
=> d ibib abs 112 1-27
L12 ANSWER 1 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                          2005:34518 HCAPLUS
DOCUMENT NUMBER:
                          142:127541
TITLE:
                          Screening assay for glucokinase modulators for the
                          treatment of diabetes based on glucokinase
                          translocation, conformational transitions or
                          nitrosylation state in insulin-responsive cells
INVENTOR(S):
                          Rizzo, Mark A.; Piston, David W.
PATENT ASSIGNEE(S):
                          USA
SOURCE:
                          U.S. Pat. Appl. Publ., 25 pp.
                          CODEN: USXXCO
DOCUMENT TYPE:
                          Patent
LANGUAGE:
                          English
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                       APPLICATION NO.
     PATENT NO.
                          KIND
                                 DATE
     _____
                          ____
                                 -----
                                              -----
                                             US 2004-838167
     US 2005009129
                           A1
                                 20050113
                                                                      20040503
                                              US 2003-467885P P 20030505
PRIORITY APPLN. INFO.:
     diabetes other glycemic disorders. Such therapeutics involve the signaling pathways that contribute to regulation of
     glucose-stimulated insulin secretion. The role of NO synthase and of
     S-nitrosylation in regulating glucokinase (GK) was studied. It was shown
```

RIORITY APPLN. INFO.:

B The present invention relates to providing novel therapeutics for treating diabetes other glycemic disorders. Such therapeutics involve the signaling pathways that contribute to regulation of glucose-stimulated insulin secretion. The role of NO synthase and of S-nitrosylation in regulating glucokinase (GK) was studied. It was shown that regulation of GK-NOS association by nitrosylation provides a sensitive means for modulating GK activity, thus affecting glucose-stimulated insulin secretion. Of particular interest are modulators of a key component in the GK pathway. Thus, the present provides methods of screening for modulators of glucokinase (GK) activity, expression, translocation, conformation, nitrosylation and interaction with other

mols. as useful target for pharmacol. manipulation in the treatment of diabetes and other glycemic disorders. The method comprises: (a) providing an insulin-responsive cell expressing GK; (b) contacting the cell with the candidate substance; (c) measuring translocation of GK into cytoplasm of the cell or the change in GK conformation or the change in GK nitrosylation. An insulinoma cell is used as the insulin-responsive cell. The insulin-responsive cell is treated with insulin, glucose, or NO. GK is labeled by yellow fluorescent protein and/or cyan fluorescent protein. Fluorescence photobleaching or FRET is used for measuring GK response.

L12 ANSWER 2 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:965288 HCAPLUS

DOCUMENT NUMBER: 141:406300

Combined use of keratinocyte growth factor agonists TITLE:

and gastrin compounds in treating diabetes and other

diseases

Brand, Stephen J.; Cruz, Antonio INVENTOR(S): PATENT ASSIGNEE(S): Waratah Pharmaceuticals, Inc., Can.

PCT Int. Appl., 58 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: _____

PAT	ENT I	NO.			KIN	D	DATE		į	APPL:	ICAT	ION	NO.		D	ATE	
WO	WO 2004096853			A1		20041111		WO 2004-CA648					20040430				
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑŻ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
		CN,	co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NA,	NI,
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,
		ТJ,	TM,	TN,	TR,	TT,	ΤZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw
	RW:	B₩,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	ΤZ,	UG,	ZM,	ZW,	AM,
		AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,
		ĒΕ,	ES,	FI,	FR,	GB,	GR,	ΗU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,
					BF,												
		SN,	TD,	TG													

US 2003-509068P P 20030430 PRIORITY APPLN. INFO.: The invention relates generally to compns., conjugates, and methods comprising a KGF agonist and a gastrin compound The compns. can be used in the treatment and/or prevention of conditions for which either a KGF agonist or a gastrin compound have been demonstrated to have a therapeutic effect, including but not limited to diabetes, hypertension, chronic heart failure, fluid retentive states, metabolic syndrome and related diseases and disorders, and obesity. The invention also provides for expanding the insulin secreting cells by treatment with a KGF agonist and a gastrin compound A method for inducing islet neogenesis therapy in a cell of an animal, comprising contacting the cell with a nucleic acid sequence encoding a gastrin/CCK receptor ligand operably linked to an insulin promoter receptor ligand and a nucleic acid sequence encoding a KGF receptor ligand operably linked to a metallothionein promoter was also claimed. Transgenic animals whose germ cells comprise the above mentioned nucleic acids is addnl. claimed.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT L12 ANSWER 3 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:633452 HCAPLUS

DOCUMENT NUMBER: 141:151032

Methods and compositions using zinc, nucleotides, and TITLE:

other small molecule ligands for

P2X receptor calcium entry channels and other calcium

entry mechanisms, and therapeutic use Schwiebert, Erik; Zsembery, Akos INVENTOR(S):

UAB Research Foundation, USA PATENT ASSIGNEE(S):

SOURCE: PCT Int. Appl., 113 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT	NO.			KIN)	DATE			APPL	ICAT	ION	NO.		Dž	ATE	
	2004	• • • •			A2 C2		2004 2005		,	WO 2	004-	US12	98		20	0040	120
	2004	•			A3		2005										
	W:	ΑE,	ΑE,	AG,	AL,	AL,	AM,	AM,	AM,	ΑT,	AT,	ΑU,	ΑZ,	ΑZ,	BA,	BB,	BG,
		BG,	BR,	BR,	BW,	BY,	BY,	ΒZ,	ΒZ,	CA,	CH,	CN,	CN,	CO,	co,	CR,	CR,
		CU,	CU,	CZ,	CZ,	DE,	DE,	DK,	DK,	DM,	DZ,	EC,	EC,	EE,	EE,	EG,	ES,
		ES,	FI,	FI,	GB,	GD,	GE,	GE,	GH,	GM,	HR,	HR,	ΗU,	HU,	ID,	IL,	IN,
		IS,	JP,	JP,	ΚE,	KE,	KG,	KG,	KP,	ΚP,	KP,	KR,	KR,	ΚZ,	ΚZ,	ΚZ,	LC,
		LK,	LR,	LS,	LS,	LT,	LU,	LV,	MA,	MD,	MD,	MG,	MK,	MN,	MW,	MX,	MX,
		MZ,	MZ,	NA,	NI												
PRIORITY	APP	LN.	INFO	.:						US 2	003-	4410	45P		P 20	0030	117

US 2003-476423P P 20030603 The invention discloses a method for increasing cytosolic Ca2+ levels in AΒ mammalian cells, comprising contacting P2X receptor Ca2+ entry channels or any and all other Ca2+ entry channels or mechanisms on the cell with an effective amount of a small mol. The invention also discloses a composition comprising the small mol. in a delivery system. The invention has broad applicability in the pharmaceutical industry as a method of treating airway diseases (such as cystic fibrosis and asthma), ailments of the lung and airways (such as those caused by common cold pathogens or allergens in allergy), kidney diseases and renal hypertensive disorders (such as polycystic kidney disease and salt-sensitive hypertension syndromes), and endocrine disorders (such as diabetes).

L12 ANSWER 4 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

2004:492239 HCAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 141:3846

Method for the selection of cells that produce TITLE:

specific binding molecules

Sellrie, Frank; Micheel, Burkhard INVENTOR(S):

PATENT ASSIGNEE(S): Universitaet Potsdam, Germany

Ger. Offen., 10 pp. SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE: Patent German LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATÉ	APPLICATION NO.	DATE
DE 10256042	A1	20040617	DE 2002-10256042	20021130

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WO 2004050901
                                      20040617
                              A2
                                                   WO 2003-EP12863
                                                                               20031117
                                      20040812
      WO 2004050901
                              Α3
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               CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,
          PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                                 EP 2003-779963
                                      20050824
      EP 1565567
                              A2
                                                                               20031117
               AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                                                         A 20021130
PRIORITY APPLN. INFO.:
                                                    DE 2002-10256042
                                                    WO 2003-EP12863
                                                                           W
                                                                              20031117
      The present invention concerns a method for the selection of cells that
AB
      express specific binding mols. by contacting the cells with a
      conjugate composed of an effector mol. and a specific ligand; followed the
      addition of a substance that binds to the ligand and thus inactivates the
      effector mol. The procedure can be applied to all cells, which are able
      to express specific binding mols. as for example bacteria cells,
      yeast cells, fungus cells, insect cells, alga cells, plant cells and
     mammalian cells and in particular hybridoma cells and stem cells, such as
     non-human embryonic stem cells. The procedure permits also a simple
      selection, whereby cells are available in form of an organ and/or tissue.
     Addnl. the selection can be accomplished in vitro or in vivo. As to be
      expressed mols. nucleic acids, polysaccharides,
     proteins or peptides and in particular antibodies and antibody fragments
     can be selected. Thus the toxic effect of an ampicillin-fluorescein
      conjugate on Escherichia coli was tested. The pos. control showed
      toxicity, i.e. the binding of the ampicillin-fluorescein conjugate to the
      cells via the ampicillin aminogroup; addition of an anti-fluorescein antibody
      resulted in the survival of E.coli, i.e. the disappearance of the toxic
     effect.
L12 ANSWER 5 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN
                             2003:269001 HCAPLUS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                             139:130861
TITLE:
                             Investigations on the metabolism of viable and
                             nonviable gilthead sea bream (Sparus aurata) eggs
                             Lahnsteiner, Franz; Patarnello, Pierpaolo
AUTHOR(S):
CORPORATE SOURCE:
                             Institute for Zoology, University of Salzburg,
                             Salzburg, A-5020, Austria
SOURCE:
                             Aquaculture (2003), 223(1-4), 159-174
                             CODEN: AQCLAL; ISSN: 0044-8486
                             Elsevier Science B.V.
PUBLISHER:
DOCUMENT TYPE:
                             Journal
LANGUAGE:
                             English
     The present study investigated selected biochem. parameters in viable and
     nonviable eggs of the gilthead sea bream, Sparus aurata. During
     embryogenesis, S. aurata eggs had a balanced and stable energy metabolism as
     the levels of adenosine nucleotides and acetyl-CoA, and the adenylate
     energy charge (EC), remained constant Mg2+-dependent ATPase, which is
     involved in membrane-driven ion transport during oxidative
     phosphorylation, increased in activity. In nonviable eggs, the levels of
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ATP, acetyl-CoA, the adenylate energy charge, and the activities of malate dehydrogenase were significantly decreased in comparison to viable eggs. Viable eggs had high Na+/K+-ATPase activity which remained constant during

embryogenesis while Ca2+-ATPase activity increased.

These enzymes were similarly high in nonviable eggs indicating that the ability for ion transport and for osmoregulation did not differ. However, nonviable eggs contained nonphysiol. high levels of magnesium and calcium ions indicating ion influx from the seawater. As the phospholipid levels were significantly lower in nonviable eggs, this ion influx is thought to be related to changed composition of the oolemma. Activities of glucose-6-phosphate dehydrogenase, transaldolase, phosphofructokinase, and pyruvate kinase were constant in viable eggs of S. aurata during embryogenesis. Pyruvate carboxylase increased in activity in the embryonic stage. The occurrence of these enzymes indicated the presence of the enzymic system for glycolysis for gluconeogenesis and for the pentose phosphate pathway. The monosaccharide levels (i.e., total amount, glucose, fructose, galactose) increased steadily during egg development. Monosaccharides are necessary for nucleic acid synthesis levels, which increased during embryogenesis, and may also play a role as osmotically active compds. In nonviable eggs, levels of all assayed sugars as well as activities of pyruvate carboxylase and transaldolase were very significantly decreased. Enzymes involved in the catabolism of proteins and amino acids (proteases, aspartate aminotransferase, glutamate dehydrogenase) were constant in the viable eggs with the exception of aspartate aminotransferase, which increased significantly in the embryonic stage. Nonviable eggs had lower activities of glutamate dehydrogenase than viable eggs, while the other enzyme activities were similar. Amino acid levels and inorg. phosphate levels were lower in nonviable than in viable eggs.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 6 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:129326 HCAPLUS

DOCUMENT NUMBER: 138:142523

TITLE: Composition and method for treatment of otitis externa

INVENTOR(S): Mautone, Alan J.

PATENT ASSIGNEE(S): Scientific Development and Research, Inc., USA SOURCE: U.S., 13 pp., Cont.-in-part of U.S. 6,156,294.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 6

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6521213	 B1	20030218	US 2000-639730	20000816
US 6156294	A	20030218	US 1999-450884	19991128
US 2002076383	A1	20020620	US 2001-11626	20011211
PRIORITY APPLN. INFO.:			US 1999-450884	A2 19991128
			US 2000-639730	A2 20000816

AB The present invention discloses a method of increasing external auditory tube patency while simultaneously preventing the occurrence of otitis externa comprising administration of an aerosolized mixture of lipid crystals comprised of a mixture of one or more lipids surfactants and one or more spreading agents selected from the group consisting of cholesteryl esters, phospholipids, carbohydrates, and proteins, in powder form, and one or more fluorocarbon propellants directly to the external auditory tube via the external auditory meatus. Upon administration, the propellant(s) are evaporated from the mixture and the lipid crystals are deposited upon an air/liquid interface resident upon epithelial tissue lining the external auditory tube. Upon contact of said lipid

crystals with the epithelial lining, an amorphous spread film is formed thereupon to form a barrier against exogenous water while simultaneously and substantially decreasing the surface tension of said lining to increase the patency thereof. In a second preferred embodiment, a therapeutically active agent effective in the treatment of otitis externa is added to the mixture of lipid crystals and upon administration of said aerosol mixture, the amorphous spread film formed thereby carries said therapeutically active agent throughout the epithelium of the outer ear canal to improve the patency thereof by both reducing surface tension of said epithelial lining and by efficiently treating the inflammatory process.

REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 7 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:928122 HCAPLUS

DOCUMENT NUMBER: 138:12504

TITLE: Method for assaying biomolecules and other

constituents using indicator conjugates with synthetic nucleounits in lateral flow, liquid, and dry chemistry

techniques

INVENTOR(S): Smith, Jack V.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 46 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002182600	A1	20021205	US 2001-829563	20010411
PRIORITY APPLN. INFO.:			US 2001-829563	20010411

The present invention is a method for the use of particles made up of AB nucleotides or fragments of base groups of DNA and RNA mols. herein referred to as synthetic nucleounits which can be used as recognition mols. with specificity and sensitivity significantly greater than that of antibodies which are used in clin. diagnostics, biotechnol., and research. The method for detecting an analyte using nucleounits targeted to the analyte comprises (1) identifying a nucleounit from a mixture of synthetic random sequences of nucleounit libraries, (2) conjugating the nucleounit to an indicator for the analyte, and (3) detecting the analyte using the nucleounit-indicator conjugate in a buffer. Step 1 is carried out by (a) contacting the analyte with the mixture of synthetic random sequences of nucleounit libraries such that some nucleounits bind the analyte, (b) removing the unbound nucleounits by partitioning, and (c) amplifying the remaining nucleounits by PCR to obtain an enriched solution of nucleounits with high affinity for the analyte. Thus, a method and lateral flow test strip for detection of cytomegalovirus (CMV) presence in a biol. sample such as serum or urine is described. The strip is prepared with three solns., one containing anti-CMV antibodies, one containing "nucleounit

to CMV antibody conjugated to red microparticles" and "red microparticles", and another containing "nucleounit to colored particles". The "nucleounit" may be an oligonucleotide aptamer specific for anti-CMV antibodies.

L12 ANSWER 8 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN ACCESSION NUMBER: 2002:511028 HCAPLUS

DOCUMENT NUMBER: 138:12760

.TITLE: Diplostomum spathaceum cercariae respond to

a unique profile of cues during recognition of their

fish host

AUTHOR(S): Haas, Wilfried; Stiegeler, Petra; Keating, Anne;

Kullmann, Birgit; Rabenau, Holger; Schonamsgruber,

Eric; Haberl, Bernhard

CORPORATE SOURCE: Institute for Zoology I, University

Erlangen-Nuernberg, Erlangen, D-91058, Germany

SOURCE: International Journal for Parasitology (2002), 32(9),

1145-1154

CODEN: IJPYBT; ISSN: 0020-7519

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal LANGUAGE: English

During its normal life cycle, Diplostomum spathaceum cercariae AR attach to and invade fish intermediate hosts. They are also known to attach to various other aquatic animals in response to water currents, touch and carbon dioxide. The purpose of this study was to identify the specific stimuli used by D. spathaceum cercariae to recognize the appropriate fish host. The authors characterized the host cues which stimulate them to remain on the host (enduring contact) and to penetrate the skin. Cercariae were exposed to animal skin tissues and fish skin surface mucus, their exts. and chemical modifications integrated into agar or offered via membrane filters. Enduring contact was stimulated by hydrophilic exts. Mr<3 kDa, which were sensitive to oxidation of carbohydrates. The stimulating cues are probably small mol. carbohydrates, as monosaccharides stimulated enduring contacts, but amino acids, urea, electrolytes and peptides did not. Penetration was stimulated by hydrophilic macromols., Mr>30 kDa, and by lipids. The hydrophilic stimuli were protease resistant and precipitable with Alcian blue and they were sensitive to alkaline cleavage, to digestion with lysozyme and neuraminidase as well as to oxidation of sialic They were considered to be glycoproteins with O-glycosidically acids. linked carbohydrate chains and bound sialic acids as signal structures. The lipophilic penetration stimuli were contained exclusively in the fatty acid fractions, and the stimulating characteristics of these fatty acids resembled the stimulating penetrations in other cercarial species. Diplostomum spathaceum cercariae respond to a unique profile of cues in their sequence of host-recognition phases. These cues differ from those used in other fish parasites studied to date and underline the diversity of fish recognition strategies.

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 9 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:368225 HCAPLUS

DOCUMENT NUMBER: 136:366147

TITLE: Monocotyledonous plant transformation

INVENTOR(S): Elliott, Adrian Ross; Lakshmanan, Prakash; Geijskes,

Robert Jason; Berding, Nils; Grof, Christopher Peter

Leslie; Smith, Grant Richard

PATENT ASSIGNEE(S): Sugar Research & Development Corporation, Australia;

Bureau of Sugar Experiment Stations; Commonwealth Scientific and Industrial Research Organisation

SOURCE: PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

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DATE
                                               APPLICATION NO.
     PATENT NO.
                           KIND
                                                                           DATE
     WO 2002037951 A1
                           A1 20020516 WO 2001-AU1454 20011109
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
         PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     CA 2454383
                          AA
                                   20020516 CA 2001-2454383 20011109
                                              AU 2002-14805
EP 2001-983292
                                                                          20011109
                            Α5
     AU 2002014805
                                    20020521
                                  20031008
                                                                          20011109
     EP 1349444
                            A1
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     US 2004123342
                       A1 20040624
                                              US 2003-437367
                                                                       20030512
                                                 AU 2000-1431 A 20001110 WO 2001-AU1454 W 20011109
PRIORITY APPLN. INFO.:
     A method of producing a transgenic monocotyledonous plant includes
AB
     culturing a thin section explant from a monocotyledonous plant, such as
     sugarcane, wheat or sorghum, in the presence of an auxin and, optionally,
     a cytokinin, prior to transformation. It is optimal for the thin section
     to be oriented during this pre-transformation culture period of 1-6 days
     so that a basal surface is substantially not in contact with the
     culture medium. The cultured explant is then transformed followed by a
     rest period of 4-15 days in a culture medium without selection agent but
     comprising an auxin and, optionally, a cytokinin. After this rest period,
     transgenic plants are selectively propagated from the transformed plant
     tissue in the presence of a selection agent such as paromomycin sulfate or
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reduces the likelihood of somaclonal variation among transgenic progeny. REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

geneticin. This system provides rapid, efficient generation of transgenic monocotyledonous plants from transformed, non-callus tissue and thereby

L12 ANSWER 10 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:107671 HCAPLUS

DOCUMENT NUMBER: 136:163667

Methods for biosensor library synthesis and TITLE:

applications of use

Minshull, Jeremy; Davis, S. Christopher; Welch, Mark; INVENTOR(S):

Raillard, Sun Ai; Vogel, Kurt; Krebber, Claus

PATENT ASSIGNEE(S):

Maxygen, Inc., USA PCT Int. Appl., 158 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PAI	ENT	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		Di	ATE	
	2002				A2		2002			WO 2	001-	US24	182		2	0010	731
WO	2002				A3		2003										
	W:						AU,										
		CO,	CR,	CU,	CZ,	DE,	DK,	ĎΜ,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,

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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
               LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT,
               RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US,
               UZ, VN, YU, ZA, ZW
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
      US 2002102577
                               A1
                                       20020801
                                                     US 2001-920452
                                                                                 20010731
      US 2002127623
                               A1
                                       20020912
                                                     US 2001-920607
                                                                                 20010731
      EP 1373889
                               A2
                                       20040102
                                                     EP 2001-957383
                                                                                 20010731
               AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
               IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
PRIORITY APPLN. INFO.:
                                                     US 2000-222056P
                                                                             Ρ
                                                                                 20000731
                                                     US 2000-244764P
                                                                             Ρ
                                                                                 20001031
                                                     WO 2001-US24182
                                                                             W 20010731
      The invention concerns methods for sensing test stimuli using arrays of
AB
      biopolymers. Reusable library arrays of biopolymers, such nucleic
      acid variants, and expression products encoded by nucleic
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The invention concerns methods for sensing test stimuli using arrays of biopolymers. Reusable library arrays of biopolymers, such nucleic acid variants, and expression products encoded by nucleic acid variants are provided. The present invention provides novel methods for detecting a wide range of biol., chemical and biochem. stimuli. The methods of the invention utilize biopolymers and arrayed libraries of biopolymers, members of which are capable of binding the biol., chemical or biochem. stimuli, and upon binding produce a detectable signal. Upon contact with the test stimulus, a test stimulus array pattern is produced and detected. The test stimulus array pattern is then compared to the calibrating array pattern enabling identification of the test stimulus. Examples provide extensive listings of suitable hormones and enzymes suitable for such biosensor development. Diagrams describing the apparatus are given.

L12 ANSWER 11 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:66012 HCAPLUS

DOCUMENT NUMBER: 136:115131

TITLE: Matrices with memories

INVENTOR(S):
Nova, Michael P.; Potash, Hanan

PATENT ASSIGNEE(S): Discovery Partners International, Inc., USA SOURCE: U.S., 117 pp., Cont.-in-part of U.S. 5,961,923.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 20

PATENT INFORMATION:

PATENT NO.	KIND DAT	E AI	PPLICATION NO.	DATE
US 6340588	B1 200	20122 US	5 1998-51022	19980922
US 5741462			5 1995-428662	19950425
US 5925562	A 199	90720 US	3 1995-480196	19950607
US 6331273	B1 200	11218 US	5 1995-473660	19950607
US 6352854	B1 200	20305 US	5 1995-480147	19950607
US 6416714	B1 200	20709 US	5 1995-484486	19950607
US 5874214	A 199	90223 US	5 1995-538387	19951003
US 6025129	A 200	00215 US	S 1995-567746	19951205
WO 9636436	A1 199	61121 WC	D 1996-US6145	19960425
W: AL, AM, AT,	, AU, AZ, BB	, BG, BR, B	BY, CA, CH, CN,	CZ, DE, DK, EE,
ES, FI, GB,	GE, HU, IS	, JP, KE, H	KG, KP, KR, KZ,	LK, LR, LS, LT,
LU, LV, MD,	MG, MK, MN	, MW, MX, h	NO, NZ, PL, PT,	RO, RU, SD, SE,
SG, SI				
RW: KE, LS, MW,	, SD, SZ, UG	, AT, BE, (CH, DE, DK, ES,	FI, FR, GB, GR,

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IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN
     US 6100026
                                 20000808
                                             US 1996-633410
                                                                     19960610
                          Α
     US 6319668
                          В1
                                 20011120
                                             US 1996-669252
                                                                     19960624
     US 6284459
                          В1
                                 20010904
                                             US 1996-711426
                                                                     19960905
     US 6017496
                          Α
                                 20000125
                                             US 1996-709435
                                                                     19960906
     US 5961923
                          Α
                                 19991005
                                             US 1996-723423
                                                                     19960930
PRIORITY APPLN. INFO.:
                                             US 1995-428662
                                                                  A2 19950425
                                             US 1995-473660
                                                                  A2 19950607
                                             US 1995-480147
                                                                  A2 19950607
                                             US 1995-480196
                                                                  A2 19950607
                                             US 1995-484486
                                                                  A2 19950607
                                             US 1995-484504
                                                                  A2 19950607
                                             US 1995-538387
                                                                  A2 19951003
                                             US 1995-567746
                                                                  A2 19951205
                                             US 1996-639813
                                                                  B2 19960402
                                                                  A2 19960425
                                             WO 1996-US6145
                                             US 1996-633410
                                                                  A2 19960610
                                             US 1996-669252
                                                                 A2 19960624
                                             US 1996-711426
                                                                  A2 19960905
                                             US 1996-709435
                                                                 A2 19960906
                                             US 1996-723423
                                                                  A2 19960930
                                             US 1995-184504
                                                                  A2 19950607
                                             US 1997-945053
                                                                  B2 19971021
AR
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Combinations, called matrixes with memories, of matrix materials that are encoded with an optically readable code are provided. The matrix materials are those that are used in as supports in solid phase chemical and biochem. syntheses, immunoassays and hybridization reactions. The matrix materials may addnl. include fluorophores or other luminescent moieties to produce luminescing matrixes with memories. The memories include electronic and optical storage media and also include optical memories, such as bar codes and other machine-readable codes. By virtue of this combination, mols. and biol. particles, such as phage and viral particles and cells, that are in proximity or in phys. contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked mols. and biol. materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemical, isolation and purification of target macromols., capture and detection of macromols. for anal. purposes, selective removal of contaminants, enzymic catalysis, cell sorting, sensors and drug delivery, chemical modification and other uses. Methods for tagging mols., biol. particles and matrix support materials, immunoassays, receptor binding assays, scintillation proximity assays, non-radioactive proximity assays, and other methods are also provided. Sensors containing a memory in combination with a matrix are also provided.

REFERENCE COUNT: 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L12 ANSWER 12 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN
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ACCESSION NUMBER: 2001:569707 HCAPLUS

DOCUMENT NUMBER: 135:147460

TITLE: Correction of genetic defects using chemical

chaperones

INVENTOR(S): Welch, William J.; Brown, C. Randell; Tatzelt, Jorg PATENT ASSIGNEE(S): The Regents of the University of California, USA U.S., 55 pp., Cont.-in-part of U.S. 5,900,360.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	WEND	D 3 M 17	A DDI TOAMTONI NO	האשר
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6270954	B1	20010807	US 1999-291406	19990413
US 5900360	Α	19990504	US 1997-838691	19970409
US 2001021500	A1	20010913	US 2001-823657	20010330
US 6541195	B2	20030401		
PRIORITY APPLN. INFO.:			US 1996-15155P	P 19960410
			US 1997-838691	A2 19970409
			WO 1997-US5846	W 19970409
•			US 1999-291406	A1 19990413
			phenotypic defect in	

contains a conformationally defective target protein, wherein the conformational defect causes the phenotype defect, which comprises contacting a first cell that expresses the conformationally defective target protein with an amount of a protein stabilizing agent that is effective to improve the conformational defect, thereby improving the phenotypic defect of the first cell in comparison with a second cell having the same conformationally defective target protein and phenotypic defect, wherein the second cell is not contacted with the protein stabilizing agent.

REFERENCE COUNT:

10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 13 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

2000:842023 HCAPLUS ACCESSION NUMBER:

134:32962 DOCUMENT NUMBER:

Ophthalmic solutions incorporating an antimicrobial TITLE:

polypeptide

Tuse, Daniel; Mortelmans, Kristien; Hokama, Leslie A.; INVENTOR(S):

Selsted, Michael E.; Chapoy, Lawrence L.; Quinn,

Michael H.

Large Scale Biology Corporation, USA; SRI PATENT ASSIGNEE(S):

International; The Regents of the University of

California; Wesley-Jessen Corporation

PCT Int. Appl., 91 pp. SOURCE:

CODEN: PIXXD2

Patent DOCUMENT TYPE: LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.			KIND DATE			APPLICATION NO.					DATE						
	WO 2000071175			A1 20001130			WO 2000-US14608					20000523						
		W:	AE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,
			CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,
			ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,
			LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,
			SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VN,	YU,	ZA,
			ZW,	AM,	AZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM						
		RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,
			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,
			CF,	CG,	CI,	CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
	US	6482	799			В1		2002	1119	1	US 1	999-	3181	95		1	9990	525
PRIO	RIT:	APP	LN.	INFO	.:	•				1	US 1	999-	3181	95	i	A 1	9990	525
AB	AB This invention provides a novel antimicrobial system suitable for																	
	for	cmula	tion	in a	a wi	de va	arie	ty o	f opl	htha.	lmic	sol	ns.	In	part:	icula	ar t	he

composition comprises an antimicrobial peptide that is an indolicidin and a

buffer compatible with application to a mammalian eye, wherein the buffer is a Good's buffer or the buffer has a halide ion concentration less than 0.85 wt%. The compns. are useful for storing, cleaning, or disinfecting a contact lens. In particular the compns. are self-preserving upon lengthy storage, effective in cleaning and sterilizing contact lenses upon exposure of the lens to the composition, do not require the need for phys. or thermal treatment of the lens and enable the immediate application of the lens to the eye without the need for neutralization, deactivation or washing. For example, an indolicidin ophthalmic solution was prepared by dissolving 0.005 g of indolicidin in 10 mL distilled water, diluting

the solution with a phosphate buffer to 100 mL, and adding 8.7 g of NaCl and 0.25 g of Poloxamer.

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 14 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:842010 HCAPLUS

DOCUMENT NUMBER:

134:26048

TITLE:

Construction of tagged epitope protein transposable

elements and their use for pathogen

detection and as carrier vaccines

INVENTOR(S):

Heffron, Fred L.; Parker, David C.; Ellefson, Dolph D.

Oregon Health Sciences University, USA

SOURCE:

PCT Int. Appl., 63 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT ASSIGNEE(S):

PATENT NO.				KIND DATE			APPLICATION NO.						DATE					
WC	WO 2000071158			A1 20001130			WO 2000-US14687					20000526						
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	
		CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	
																LT,		
		LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	
																VN,		
		ZA,	ZW,	AM,	AZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM						
	RW:												ZW,	AT,	BE,	CH,	CY,	
						•	•	•	•	•						BF,		
				•	•	•	GN,			•					•	•		
CA	2374	•	•	•	AA								-		2	0000	526	
AU	2000	0529	98						AU 2000-52998									
	1194																	
																MC,		
		-			LV,			•	- •	•	•	•	,	•	·		•	
JF	2003		•					0107		JP 2	000-	6194	60		2	0000	526	
	6846									US 2	001-	9793	38		2	0011	121	
PRIORIT										US 1	999-	1362	10P		P 1	9990	526	
										WO 2	000-	US14	687	1	W 2	0000	526	
										. –								

AB A transposable element is provided that includes a 5' recombining site 5' of a nucleic acid sequence encoding a selectable marker, a 3' recombining site 3' of the nucleic acid sequence encoding a selectable marker, a nucleic acid sequence encoding an MHC epitope 5' to the 5' recombining site or 3' to the 3' recombining site, and an insertion end comprising an inverted repeat sequence sufficient for integration of the transposable element at the 5' and the 3' end of the transposable element. The transposable

```
element includes a 5' loxP sequence 5' of a nucleic acid
    encoding a selectable marker, a 3' loxP sequences 3' of a nucleic
     acid encoding the selectable marker, an MHC epitope 5' to the 5'
     loxP sequences or 3' of the 3' loxP sequence, an insertion end at the 5'
     end of the transposable element, and an insertion end at the 3' of the
     transposable element. A method is provided for detecting an antigenic
     epitope of a pathogen by infecting a pathogenic cell
    with a transposable element of the invention, wherein the infection
     results in the integration of the transposable element in a
    nucleic acid sequence of the bacterial cell;
     transforming the pathogenic cell with a vector comprising a
     transposase; contacting a eukaryotic cell that can internalize
     the pathogenic cell with the pathogenic cell infected
     with the transposable element; contacting the eukaryotic cell
     with a specific binding partner that recognizes the MHC epitope;
     identifying the labeled eukaryotic cells and externalizing the
    bacteria cell. The externalized bacterial cell may be
    grown to produce a population of bacterial cells, and the
    nucleic acid sequence of the bacterial cell
     that has the integrated transposable element is identified. This
    nucleic acid sequence encodes the antigenic element of
     the pathogen. A method is also provided for generating a
     carrier vaccine by infecting a bacterial cell with the
     transposable element of the invention, wherein the transposable further
     comprises an antigen associated with a disease operably linked to the MHC
    epitope of the transposable element. The infection of the
    bacteria results in the integration of the transposable element in
     a nucleic acid sequence of the bacterial
     cell. The pathogenic cell is then internalized into a
     eukaryotic cell and the eukaryotic cell is exposed to a specific binding
     agent that recognizes the MHC epitope, identifying labeled eukaryotic
     cells are identified and lysed to externalize the bacteria cell,
     which is cultured to produce a population of bacterial cells.
     The nucleic acid sequence of the bacterial
     cell that has the integrated transposable element is identified, wherein
     the nucleic acid sequence encodes the antigenic
     element of the pathogen. The graving bacterial cell
     identified, and may be used as the carrier vaccine.
REFERENCE COUNT:
                              THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
                              RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
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L12 ANSWER 15 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:359738 HCAPLUS

DOCUMENT NUMBER: 131:2507

TITLE: Improvements in or relating to displacement assays

using analyte-displaceable moieties

INVENTOR(S): Badley, Robert Andrew; Berry, Mark John; Howell,

Stephen

PATENT ASSIGNEE(S): Unilever PLC, UK; Unilever N.V.

SOURCE: PCT Int. Appl., 49 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9927368 A1 19990603 WO 1998-GB3483 19981123
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,

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DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE,
              KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
         MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
              CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     CA 2309599
                            AA
                                   19990603
                                                CA 1998-2309599
                                                                          19981123
                                                AU 1999-12482
     AU 9912482
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                                   19990615
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     AU 757691
                            B2
                                   20030306
                                                EP 1998-955751
     EP 1032835
                            Α1
                                   20000906
                                                                          19981123
     EP 1032835
                            В1
                                   20050112
         R: CH, DE, ES, FR, GB, IT, LI, NL, SE, IE
                                                 JP 2000-522454
     JP 2001524674
                            Т2
                                   20011204
                                                                          19981123
                                                 EP 1997-309409
PRIORITY APPLN. INFO.:
                                                                      Α
                                                                         19971121
                                                 WO 1998-GB3483
                                                                      W 19981123
     Disclosed is a method of detecting the presence of an analyte of interest
AΒ
     in the sample, the method comprising the steps of: reversibly immobilizing
     on a first surface a displaceable moiety; exposing the first surface to a
     sample comprising the analyte of interest, the analyte of interest
     specifically displacing the displaceable moiety from the first surface;
     causing the displaceable moiety displaced from the first surface to
     contact a second surface bearing a capture moiety which
     specifically binds to the displaceable moiety, so as to capture the
     displaceable moiety on the second surface, said capture generating a
     detectable signal; and detecting the signal. Estradiol 3-glucuronide
     (ED3G) was immobilized at a first surface on a Bialite biosensor and
     loaded with monoclonal antibody 4155 to estrone 3-glucuronide (E3G).
     Rabbit anti-mouse IgG was immobilized at a second surface. Specific
     displacement of 4155 from surface 1 and recapture/detection at surface 2
     was induced by injection of E3G across the surfaces.
                                  THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
REFERENCE COUNT:
                                  RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
L12 ANSWER 16 OF 27
                        HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:
                           1999:136747 HCAPLUS
DOCUMENT NUMBER:
                           130:165143
                           Remotely programmable matrixes with memories with
TITLE:
                           applications to biological processes
                           Nova, Michael P.; Senyei, Andrew E.
INVENTOR(S):
PATENT ASSIGNEE(S):
                           IRORI, USA
                           U.S., 56 pp., Cont.-in-part of U.S. Ser. No. 480,147. CODEN: USXXAM
SOURCE:
DOCUMENT TYPE:
                           Patent
                           English
LANGUAGE:
FAMILY ACC. NUM. COUNT:
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PAT	TENT NO	•		KINE	DATE		API	LICAT	ION I	10.		DA	ATE	
US	587421	 4		A	1999	0223	US	1995-	53838	37		19	9510	003
	574146	_		A	1998	0421	US	1995-	4286	52		19	9504	125
US	592556	2		Α	1999	0720	US	1995-	4801	96		19	950	607
US	633127	3		В1	2001	1218	US	1995-	4736	60		19	950	507
US	635285	4		В1	2002	0305	US	1995-	4801	17		19	950	607
US	641671	4		В1	2002	0709	US	1995-	48448	36		19	950	607
US	602512	9		Α	2000	0215	US	1995-	5677	46		19	9512	205
CA	221664	5		AA	1996	1121	CA	1996-	2216	645		19	9960	425
WO	963643	6		A1	1996	1121	WO	1996-	US61	45		19	9960	425
	W: A	L, AM,	ΑT,	ΑU,	AZ, BB,	BG,	BR, BY	, CA,	CH,	CN,	CZ,	DE,	DK,	EE,

PATENT INFORMATION:

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ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT,
              LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,
              SG, SI
          RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
              IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN
     EP 822861
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                             Α1
                                                 EP 1996-916437
                                                                            19960425
     EP 822861
                             В1
                                    20031126
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI
     CN 1181720
                             Α
                                    19980513
                                                 CN 1996-193374
                                                                            19960425
     JP 11511238
                             T2
                                    19990928
                                                 JP 1996-530562
                                                                            19960425
                                    20031215
     AT 254965
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                                                 AT 1996-916437
                                                                            19960425
                                    19961129
     AU 9659185
                            A1
                                                 AU 1996-59185
                                                                            19960501
     AU 707444
                            B2
                                    19990708
                                    20000808
                                                 US 1996-633410
     US 6100026
                            Α
                                                                            19960610
     US 6319668
                                    20011120
                             В1
                                                 US 1996-669252
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                                    20010904
                                                 US 1996-711426
     US 6284459
                             В1
                                                                            19960905
                                                 US 1996-709435
     US 6017496
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                                    20000125
                                                                            19960906
     US 5961923
                             Α
                                    19991005
                                                 US 1996-723423
                                                                            19960930
     WO 9712680
                                    19970410
                                                 WO 1996-US15999
                             A2
                                                                            19961003
     WO 9712680
                                    19970821
                             A3
              AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
              DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG
     AU 9672573
                                    19970428
                                                 AU 1996-72573
                                                                            19961003
                             Α1
     EP 853497
                             A2
                                    19980722
                                                 EP 1996-934064
                                                                            19961003
              AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
          R:
              IE, FI
     US 6329139
                                    20011211
                                                 US 1997-912998
                                                                            19970811
                             В1
     US 6340588
                             В1
                                    20020122
                                                 US 1998-51022
                                                                            19980922
                                                                        A2 19950425
PRIORITY APPLN. INFO.:
                                                  US 1995-428662
                                                 US 1995-473660
                                                                        A 19950607
                                                                        A2 19950607
                                                 US 1995-480147
                                                 US 1995-480196
                                                                        Α
                                                                            19950607
                                                 US 1995-484486
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                                                                            19950607
                                                                        A2 19950607
                                                 US 1995-484504
                                                 US 1995-184504
                                                                        A2 19950607
                                                 US 1995-538387
                                                                        A2 19951003
                                                 US 1995-567746
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                                                                            19951205
                                                 US 1996-639813
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                                                                            19960402
                                                 WO 1996-US6145
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                                                                            19960425
                                                 US 1996-633410
                                                                        A2 19960610
                                                 US 1996-669252
                                                                        A2 19960624
                                                 US 1996-711426
                                                                        A2 19960905
                                                 US 1996-709435
                                                                        A2 19960906
                                                 US 1996-723423
                                                                        A 19960930
                                                                        W 19961003
                                                 WO 1996-US15999
                                                 US 1996-726703
                                                                        B2 19961007
                                                 US 1996-743984
                                                                        A2 19961028
                                                 US 1996-741685
                                                                        B2 19961031
                                                 US 1997-857800
                                                                        B2 19970122
                                                 US 1997-826253
                                                                        B2 19970327
                                                 US 1997-945053
                                                                        B2 19971021
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AB Combinations, called matrixes with memories, of matrix materials with remotely addressable or remotely programmable recording devices that contain at least one data storage unit are provided. The matrix materials

are those that are used in as supports in solid phase chemical and biochem. syntheses, immunoassays and hybridization reactions. The data storage units are non-volatile antifuse memories or volatile memories, such as EEPROMS, DRAMS or flash memory. By virtue of this combination, mols. and biol. particles, such as phage and viral particles and cells, that are in proximity or in phys. contact with the matrix combination can be labeled by programming the memory with identifying information and can be identified by retrieving the stored information. Combinations of matrix materials, memories, and linked mols. and biol. materials are also provided. The combinations have a multiplicity of applications, including combinatorial chemical, isolation and purification of target macromols.,

capture

and detection of macromols. for anal. purposes, selective removal of contaminants, enzymic catalysis, cell sorting, drug delivery, chemical modification and other uses. Methods for electronically tagging mols., biol. particles and matrix support materials, immunoassays, receptor binding assays, and other methods are also provided.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 17 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:115343 HCAPLUS

DOCUMENT NUMBER: 128:150368

TITLE: Rapid and sensitive detection of antibiotic-resistant

mycobacteria using oligonucleotide probes
specific for ribosomal RNA precursors

INVENTOR(S): Britschgi, Theresa B.; Cangelosi, Gerard A.

PATENT ASSIGNEE(S): Becton Dickinson and Co., USA

SOURCE: U.S., 54 pp., Cont.-in-part of U.S. Ser. No. 261,068,

abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5712095	 А	19980127	US 1995-485602	19950607
US 5770373	A	19980623	US 1996-745638	19961108
US 5726021	A	19980310	US 1996-757180	19961127
PRIORITY APPLN. INFO.:	••	13300310	US 1994-261068	B2 19940616
			US 1995-485602	A3 19950607

 $\qquad \qquad \text{US 1995-485602} \qquad \text{A3 19950607} \\ \text{Methods and oligonucleotide probe compns. useful for determining antibiotic}$ AB resistance in mycobacteria are provided. The probes hybridize to open regions of mycobacterial pre-rRNA that are not present in the mature rRNA mol., and function advantageously well in hybridization assays where the target RNA is not denatured just prior to hybridization. Species-specific probes are available for Mycobacterium tuberculosis, M. leprae, M. habana, M. avium, M. bovis, M. lufu, M. paratuberculosis, M. marinum, M. simiae, and M. intracellulare. Methods are also provided for lysing the mycobacterial cells so as to free intact precursor rRNA from mycobacterial cells without degradation The cells are treated by enzymic degrdn using both lysozyme and a protease to make the cell walls porous, followed by contact with a combination of a magnesium chelator, a nonionic detergent, an anionic detergent, and heating at 75-99°. The pre-rRNA and oligonucleotide probes are useful for detecting pre-rRNA, determining antibiotic resistance (e.g., rifampin), and screening for new anti-mycobacterial therapeutic agents. These methods combine the comprehensive sensitivity

of phenotypic tests for antibiotic susceptibility with the speed and species specificity of oligonucleotide probe methods.

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 18 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1997:281150 HCAPLUS

DOCUMENT NUMBER: 126:260137

TITLE: Targeting of proteins to the cell wall of

gram-positive bacteria

INVENTOR(S): Schneewind, Olaf; Baba, Tadashi

PATENT ASSIGNEE(S): Regents of the University of California, USA

SOURCE: PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT 1	NO.			KIN)	DATE	APPLICATION NO.	DATE
					-			
WO 9708	553			A1		19970306	WO 1996-US14154	19960822
TaT a	73 5 7	ממ	$C \Lambda$	TT	TD			

W: AU, BR, CA, IL, JP

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9669133 A1 19970319 AU 1996-69133 19960822

PRIORITY APPLN. INFO.: US 1995-2615P P 19950822
WO 1996-US14154 W 19960822

OTHER SOURCE(S): MARPAT 126:260137

AB A method of stable noncovalent display of proteins, peptides, or compds. covalently linked to proteins or peptides on the surface of gram-pos. bacteria provides advantages over phage display. One embodiment of the present invention comprises a method for noncovalent protein targeting, comprising the steps of: (1) cloning a nucleic acid segment encoding a chimeric protein into a gram-pos. bacterium to generate a cloned chimeric protein including therein a carboxyl-terminal cell-wall targeting signal; (2) growing the

bacterium into which the nucleic acid segment has been cloned to express the chimeric protein to generate a chimeric protein including therein a carboxyl-terminal cell-wall targeting signal; and (3) binding the expressed chimeric protein noncovalently and stably to the cell-wall via the carboxyl-terminal cell-wall targeting signal so that

the chimeric protein is displayed on the surface on the gram-pos.

bacterium in such a way that the protein is accessible to a ligand. Alternatively, the chimeric protein can be produced by expression in another expression system and contacted with the gram-pos.

bacterium. Described are methods for producing vaccines as well as for using antibiotic-protein conjugates to treat infections.

L12 ANSWER 19 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1996:196789 HCAPLUS

DOCUMENT NUMBER: 124:220476

TITLE: Depth of the essential characteristics of the signal transmission process starting from the cell surface,

and their medicinal applications in atherosclerosis,

diabetes, cancer, scurvy, rickets, and other

conditions

INVENTOR(S): Zagyansky, Yuly

PATENT ASSIGNEE(S): Fr.

SOURCE: Can. Pat. Appl., 320 pp.

CODEN: CPXXEB

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

CA 2139676 AA 19951225 CA 1994-2139676 19941025
PRIORITY APPLN. INFO.: US 1994-281731 A 19940624

From a general process of activity of cell-surface receptors, the principal dogmas of life sciences are revised and clearly reestablished. As a result, more universal new processes and structures are established, e.g. protein kinase C vesicles, the Ca-K(Ca) wave, propagation of cell signals to DNA, etc. Consequently, the process of creation of basal lamina and organs; the structure of contact inhibition; cardiac, skeletal, and smooth muscle action; cell motility; attachment and penetration of bacterial and viral toxins; etc. have also been clearly established. Mol. origins of, and prepns. against, a variety of disorders (diabetes, dystrophy, scurvy, rickets, etc.) are included. Creation of twins is described. The finished accordance from all the given principles and very different domains again confirms the incontestable validity of findings advanced over a half-century. Included are 44 schematic diagrams and 1514 refs.

L12 ANSWER 20 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:880373 HCAPLUS

DOCUMENT NUMBER: 123:281741

TITLE: Adenovirus-mediated overexpression of liver

6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase

in gluconeogenic rat hepatoma cells. Paradoxical

effect on Fru-2,6-P2 levels

AUTHOR(S): Argaud, Doriane; Lange, Alex J.; Becker, Thomas C.;

Okar, David A.; El-Maghrabi, M. Raafat; Newgard,

Christopher B.; Pilkis, Simon J.

CORPORATE SOURCE: Dep. Physiology Biophysics, Health Science Center,

State Univ. New York, Stony Brook, NY, 11794, USA

SOURCE: Journal of Biological Chemistry (1995), 270(41),

24229-36

CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Bio

logy

DOCUMENT TYPE: Journal LANGUAGE: English

6-Phosphofructo-2-kinase/fructose-2,6-bisphosphatase has been postulated to be a metabolic signaling enzyme, which acts as a switch between glycolysis and gluconeogenesis in mammalian liver by regulating the level of fructose 2,6-bisphosphate (Fru-2,6-P2). The effect of overexpressing the bifunctional enzyme was studied in FAO cells transduced with recombinant adenoviral constructs of either the wild-type enzyme or a double mutant that has no bisphosphatase activity or protein kinase phosphorylation site. With both constructs, the mRNA and protein were overexpressed by 150- and 40-fold, resp. Addition of cAMP to cells overexpressing the wild-type enzyme increased the ${\rm S0.5}$ for fructose 6-phosphate of the kinase by 1.5-fold but had no effect on the overexpressed double mutant. When the wild-type enzyme was overexpressed, there was a decrease in fructose 2,6-bisphosphate levels, even though 6-phosphofructo-2-kinase maximal activity increased more than 22-fold and was in excess of fructose-2,6-bisphosphatase maximal activity. The kinase:bisphosphatase maximal activity ratio was decreased, indicating that the overexpressed enzyme was phosphorylated by

cAMP-dependent protein kinase. Overexpression of the double mutant resulted in a 28-fold increase in kinase maximal activity and a 3-4-fold increase in fructose 2,6-bisphosphate levels. Overexpression of this form inhibited the rate of glucose production from dihydroxyacetone by 90% and stimulated the rate of lactate plus pyruvate production by 200%. In contrast, overexpression of the wild-type enzyme enhanced glucose production and inhibited lactate plus pyruvate production. These results provide direct support for fructose 2,6-bisphosphate as a regulator of gluconeogenic/glycolytic pathway flux and suggest that regulation of bifunctional enzyme activities by covalent modification is more important than the amount of the protein.

L12 ANSWER 21 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1995:698893 HCAPLUS

DOCUMENT NUMBER: 123:74872

TITLE: Action of cell-surface receptors changing the main

characteristics of cellular function, and medical applications thereof in atherosclerosis, diabetes,

cancer, and other disorders

INVENTOR(S): Zagyansky, Yuly

PATENT ASSIGNEE(S): Fr.

SOURCE: Fr. Demande, 309 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2711318	A1	19950428	FR 1993-11198	19930921 .
PRIORITY APPLN. INFO.:			FR 1993-11198	19930921

AB From a general process of activity of cell-surface receptors, the principal dogmas of life sciences are revised and clearly reestablished. As a result, more universal new processes and structures are established, e.g. protein kinase C vesicles, the Ca-K(Ca) wave, propagation of cell signals to DNA, etc. Consequently, the process of creation of basal lamina and organs; the structure of contact inhibition; cardiac, skeletal, and smooth muscle action; cell motility; attachment and penetration of bacterial and viral toxins; etc. have also been clearly established. Mol. origins of, and prepns. against, major disorders (diabetes, dystrophy, scurvy, rickets, etc.) are included. The finished accordance from all the given principles and very different domains again confirms the incontestable validity of findings advanced over a half-century. Included are 44 schematic diagrams and 1514 refs.

L12 ANSWER 22 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:602122 HCAPLUS

DOCUMENT NUMBER: 121:202122

TITLE: Hexose-monophosphate shunt activity in intact

Plasmodium falciparum-infected erythrocytes and in

free parasites

AUTHOR(S): Atamna, Hani; Pascarmona, Gianpiero; Ginsburg, Hagai CORPORATE SOURCE: Department of Biological Chemistry, Institute of Life

Sciences, Hebrew University, Jerusalem, 91904, Israel

SOURCE: Molecular and Biochemical Parasitology (1994), 67(1), 79-89

CODEN: MBIPDP; ISSN: 0166-6851

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The hexose monophosphate shunt (HMS) produces NADPH for reductive antioxidant protection and for metabolic regulation, as well as ribose 5-phosphate needed for the synthesis of nucleic acids. Since malaria-infected red blood cells (RBC) are under endogenous oxidant stress, it was interesting to determine HMS activity in intact infected cells, as well as in free parasites. HMS activity was determined by measuring the evolution of 14CO2 from D-[1-14C]glucose in normal RBC, in intact Plasmodium falciparum-infected RBC (IRBC) and in free parasites. The HMS activity of IRBC was 78 times higher than that of normal RBC. This activity increased with parasite maturation from the ring stage toward the trophozoite stage, and declined at the schizont stage. The HMS activity of the parasite contributes 82% of the total observed in the intact IRBC, and that of the host cell is increased some 24-fold. The increased reducing capacity of IRBC and free parasites were also evidenced by the larger ability for reductive accumulation of methylene blue. Since the endogenous oxidative stress is produced by the parasite digestion of the host cell's Hb, inhibition of this process with protease inhibitors, by alkalinization of the parasite's food vacuole, or by the application of antimalarial drugs, resulted in 20-44% inhibition of IRBC HMS activity. A similar inhibition was observed in the presence of scavengers of oxidative radicals, uric and benzoic acids. These inhibitors had only a minor effect on the HMS activity of free parasites. D-[1-14C]glucose and D-[6-14C]glucose contributed equally to newly synthesized nucleic acids, suggesting that ribose-5-phosphate needed for this synthesis is contributed by the non-oxidative activity of HMS. These results imply that a major portion of parasite HMS activity and the activated HMS of the host cell are devoted to counteract the endogenously generated oxidative stress.

HCAPLUS COPYRIGHT 2005 ACS on STN L12 ANSWER 23 OF 27

ACCESSION NUMBER:

1993:1984 HCAPLUS

DOCUMENT NUMBER:

118:1984

TITLE:

Process for detecting mutations, transgenic mammal, transgenic mammalian cell, and process for testing

agents or conditions for mutagenic properties

INVENTOR(S):

Gossen, Jan Albert; Vijg, Jan

PATENT ASSIGNEE(S):

SOURCE:

Ingeny B.V., Neth.

PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	TENT NO.			KINI	DATE	APPLICATION NO.		DATE		
WO	9217605 W: JP			A1	19921015	WO 1992-NL62		19920402		
	RW: AT	, BE,	CH,	DE,	DK, ES, FR,	GB, GR, IT, LU, MC,	NL,	SE		
NL	9100567			A	19921102	NL 1991-567		19910402		
EP	579713			A1	19940126	EP 1992-909305		19920402		
EP	579713			В1	19951004					
	R: AT	, BE,	CH,	DE,	DK, ES, FR,	GB, GR, IT, LI, NL,	SE			
JP	0650635	7		Т2	19940721	JP 1992-508708		19920402		
AT	128735			E	19951015	AT 1992-909305		19920402		
ES	2078043			Т3	19951201	ES 1992-909305		19920402		
US	5602300			Α	19970211	US 1993-122562		19931229		
PRIORITY	APPLN.	INFO	. :			NL 1991-567	Α	19910402		
						WO 1992-NL62	W	19920402		

AB A process for detecting mutations in the DNA of transgenic mammals or mammalian cells is described. The transgenic mammal/cell contains a linearized plasmid containing a lacZ operator-lacZ gene construct. The DNA of the mammal/cell is isolated and the plasmid is released by digestion with a restriction enzyme. The digested DNA is contacted with solid particles to which a lacZ operator binding material is attached. After removal of the nonbinding DNA, the specifically bound DNA is released, the plasmid is circularized and then used to transform a restriction-neg., lacZ-neg., galE-neg. bacterial host. The transformants are cultured on lactose-containing medium on which only the bacteria can grow which possess no β -galactosidase as a result of mutation of the lacZ gene. The process was demonstrated with a transgenic mouse containing Agt10 into which lac2-containing pUR288 was inserted. The vector was released by EcoRI digestion and captured by magnetic beads to which anti- β -galactosidase antibody complexed with LacI repressor- β -galactosidase fusion protein was attached. The bacterial host was Escherichia coli.

L12 ANSWER 24 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1989:110086 HCAPLUS

DOCUMENT NUMBER: 110:110086

TITLE: Biochemical changes induced by fenpropathrin

in the sixth instar larvae of Tribolium castaneum

(Herbst) (Coleoptera: Tenebrionidae)

AUTHOR(S): Shakoori, A. R.; Fayyaz, M.; Saleem, M. A.

CORPORATE SOURCE: Dep. Zool., Univ. Punjab, Lahore, Pak.

SOURCE: Journal of Stored Products Research (1988), 24(4),

215-20

CODEN: JSTPAR; ISSN: 0022-474X

DOCUMENT TYPE: Journal LANGUAGE: English

AB Sixth instar larvae of T. castaneum were exposed to one of four sublethal

concns. i.e. 10, 20, 200 or 400 mg/L, of a synthetic pyrethroid,

fenpropathrin (I), for 48 h. The lactate dehydrogenase activity decreased 44, 15 and 10% after exposure to I at 20, 200 and 400 mg/L resp., while a significant increase was recorded in glutamate oxalacetate transaminase (15, 16, 34 and 37%) and glutamate pyruvate transaminase (6, 20, 13 and 29%) resp. after exposure to 10, 20, 200 and 400 mg/L. The amylase and acid phosphatase activities remained unaffected. The trehalase activity increased 42, 72

and 149%, after 20, 200 and 400 mg/L, the isocitrate dehydrogenase activity increased 28 and 67% after 10 and 20 mg/L, and alkaline phosphatase activity increased 13 and 12% after 10 and 400 mg/L resp. The weaker (10 and 20 mg/L) and stronger (200 and

400 mg/L) doses elicited two different types of responses. A dose of 20 mg/L resulted in increased soluble proteins (14%), lipids (49%), cholesterol (57%), RNA (18%), and DNA (32%) content per larva, while the stronger dose of 400 mg/L resulted in their decrease except for lipids. The total proteins, lipids and free amino acids content per larva were not affected by either concentration, while the glucose content per insect decreased with increasing concentration of I.

L12 ANSWER 25 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1978:612694 HCAPLUS

DOCUMENT NUMBER: 89:212694

TITLE: Development of glycogen and phospholipid metabolism in

fetal and newborn rat lung

AUTHOR(S): Maniscalco, William M.; Wilson, Christine M.; Gross,

Ian; Gobran, Laurice; Rooney, Seamus A.; Warshaw,

Joseph B.

CORPORATE SOURCE: Dep. Pediatr., Yale Univ. Sch. Med., New Haven, CT,

USA

.SOURCE: Biochimica et Biophysica Acta, Lipids and Lipid

Metabolism (1978), 530(3), 333-46

CODEN: BBLLA6; ISSN: 0005-2760

DOCUMENT TYPE: Journal LANGUAGE: English

AB The developmental patterns of glycogen content, glycogen synthase activity, glycogen phosphorylase activity, and glucose oxidation in fetal and newborn rat lung were examined These patterns were correlated with the development of phosphatidylcholine synthesis and content and the activities of enzymes involved in phosphatidylcholine synthesis. Fetal lung glycogen concentration increased until day 20 of gestation (term is 22

after which it declined to low levels. The activities of both glycogen synthase I and total glycogen synthase (I + D) in fetal lung increased late in gestation. Increased lung glycogen concentration preceded changes in enzyme activity. Phosphorylase a and total phosphorylase (a + b) activity in fetal lung increased during the period of prenatal glycogen depletion. The activity of the pentose phosphate path, as measured by the ratio of CO2 derived from oxidation of C1 and C6 of glucose, declined after birth. Fetal lung total phosholipid, phosphatidylcholine, and disatd. phosphatidylcholine content increased by 60, 90 and 180%, resp., between day 19 of gestation and the 1st postnatal day. Incorporation of choline into phosphatidylcholine and disatd. phosphatidylcholine increased 10-fold during this time. No changes in phosphatidylcholine enzyme activities were noted during gestation, but both choline phosphate cytidylyltransferase and phosphatidate phosphatase activity

increased after birth. The possible contributions of carbohydrate
derived from fetal lung glycogen to phospholipid synthesis are discussed.

L12 ANSWER 26 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1976:572236 HCAPLUS

DOCUMENT NUMBER: 85:172236

TITLE: The mechanism of fungistatic action of sec-butylamine.

I. Effects of sec-butylamine on the metabolism of

hyphae of Penicillium digitatum

AUTHOR(S): Yoshikawa, M.; Eckert, J. W.

CORPORATE SOURCE: Dep. Plant Pathol., Univ. California, Riverside, CA,

USA

SOURCE: Pesticide Biochemistry and Physiology (1976), 6(5),

471-81

CODEN: PCBPBS; ISSN: 0048-3575

DOCUMENT TYPE: Journal LANGUAGE: English

AB Growth of P. digitatum was inhibited after a 40-min incubation in a culture medium containing 0.5 mM (-)-sec-butylamine-HCl [31519-50-3], and the dry weight of the hyphae was 50% of the control value after 180 min. Respiration of the hyphae was reduced 13% after a 20-min contact with 0.5 mM sec-butylamine but this treatment did not influence the uptake of amino acids, glucose [50-99-7], or phosphate nor intensify the efflux of 33P- or 14C-labeled metabolites from the cells. The syntheses of cell walls and total lipids were inhibited 20-30% after a 90-min incubation with sec-butylamine, and nucleic acid synthesis was reduced to about 50% of the control value at this time. Sec-Butylamine inhibited the incorporation of C from glucose-14C into the protein fraction of the hyphae to a greater degree than 14C derived from labeled proline, lysine, or leucine, suggesting that sec-butylamine interfered primarily with the intermediary metabolism of glucose rather than inhibiting a later stage of macromol. synthesis. Hyphae incubated with glucose-14C and sec-butylamine accumulated pyruvic acid [127-17-3] to a

level 7 times greater than in control hyphae. Furthermore, sec-butylamine strongly inhibited 14CO2 evolution from hyphae metabolizing pyruvate-14C whereas CO2 derived from acetate or glucose after a 45-min incubation was only slightly reduced by sec-butylamine. These observations implicate pyruvate oxidation as the primary site of sec-butylamine action in young hyphae of P. digitatum.

L12 ANSWER 27 OF 27 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1955:84897 HCAPLUS

DOCUMENT NUMBER: 49:84897
ORIGINAL REFERENCE NO.: 49:16049f-g

TITLE: Factors controlling the variability of oxidative

activities of Azotobacter

AUTHOR(S): Maeda, Kimiko; Usami, Shoichiro

CORPORATE SOURCE: Hokkaido Univ., Sapporo

SOURCE: Koso Kagaku Shinpojumu (1954), 10, 228-35, discussion

235-7

CODEN: KKSHAL; ISSN: 0452-6236

DOCUMENT TYPE: Journal LANGUAGE: Unavailable

AB Variation in oxidative activities of A. vinelandii on various substrates was estimated under various conditions. Resting cells were suspended in a 0.04M phosphate buffer of pH 7.2 containing glucose, succinic, fumaric, malic, or lactic acids as the "inducer," and oxidative activities on several substrates were measured under aeration at 30°. Enzyme formation by inducer occurred only in the cells grown by mol. N fixation. The types of enzymes formed varied with the variety of inducers. L-Leucine oxidase was produced in cells grown heterotrophically with respect to N, and its activity increased as PO4 concentration in the media decreased. The enzyme disappeared when N metabolism in cells turned autotrophic.

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                273912-17-7/BI OR 273912-18-8/BI OR 273912-19-9/BI OR 27538-10-
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                -6/BI OR 374579-10-9/BI OR 374579-11-0/BI OR 374579-12-1/BI OR
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                OR 50-99-7/BI OR 50632-57-0/BI OR 527-50-4/BI OR 54458-61-6/BI
                OR 5694-72-4/BI OR 59995-48-1/BI OR 60047-17-8/BI OR 68043-00-5
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                ECUL? OR L5 OR ?NUCLEIC?(W)?ACID?)
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                ?DECREAS?)
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L14 ANSWER 1 OF 16 EMBASE COPYRIGHT (c) 2005 Elsevier B.V. All rights
     reserved on STN
ACCESSION NUMBER:
                    2005306646 EMBASE
TITLE:
                    Vancomycin-resistant enterococci: Consequences for therapy
                    and infection control.
AUTHOR:
                    Mascini E.M.; Bonten M.J.M.
                    M.J.M. Bonten, Eijkman-Winkler Institute for Medical
CORPORATE SOURCE:
                    Microbiology Infectious Diseases and Inflammation,
                    University Medical Center Utrecht, Heidelberglaan 100, 3584
                    CX Utrecht, Netherlands. m.j.m.bonten@digd.azu.nl
                    Clinical Microbiology and Infection, Supplement, (2005)
SOURCE:
                    Vol. 11, No. 4, pp. 43-56.
                    Refs: 141
                    ISSN: 1470-9465
COUNTRY:
                    United Kingdom
DOCUMENT TYPE:
                    Journal; General Review
FILE SEGMENT:
                    004
                            Microbiology
                             Public Health, Social Medicine and Epidemiology
                    017
                            Pharmacology
                    030
                    036
                             Health Policy, Economics and Management
                    037
                             Drug Literature Index
LANGUAGE:
                    English
SUMMARY LANGUAGE:
                    English
ENTRY DATE:
                    Entered STN: 20050728
                    Last Updated on STN: 20050728
     Vancomycin-resistant enterococci (VRE) have emerged as important
     nosocomial pathogens, initially in the USA, but now also in
     Europe, where hospital outbreaks are being reported with increasing
     frequency, although the incidence of VRE infections remains extremely low
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in most European countries. The recently demonstrated in-human transmission of vancomycin resistance from VRE to methicillin-resistant Staphylococcus aureus (MRSA) in two American patients underscores the potential danger of a coexisting reservoir of both pathogens. As MRSA is already endemic in many European hospital settings, prevention of endemicity with VRE seems relevant, but should be balanced against the costs associated with the implementation of effective strategies. presence of a large community reservoir of VRE in Europe could hamper the feasibility of infection control strategies. Although the prevalence of colonisation amongst healthy subjects has apparently decreased after the ban on avoparcin use in the agricultural industry, a large proportion of admitted patients are still potential sources of VRE transmission. With no risk profile available to identify these carriers, effective screening, followed by barrier precautions for carriers, seems to be impossible. Recent studies, however, have suggested that hospital outbreaks are almost exclusively caused by specific genogroups of VRE that can be characterised phenotypically and genotypically (e.g., co-resistance to ampicillin and the presence of the variant esp gene). Based on our own experience, we propose that VRE infection control programmes should be restricted to patients colonised with these VRE strains. If such a strain is cultured from a clinical sample, surveillance amongst contact patients is recommended and barrier precautions should be implemented in the case of documented spread. .COPYRGT. 2005 Copyright by the European Society of Clinical Microbiology and Infectious Diseases.

L14 ANSWER 2 OF 16 EMBASE COPYRIGHT (c) 2005 Elsevier B.V. All rights

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ACCESSION NUMBER: 2004084349 EMBASE

TITLE: Sexually transmissible infections other than HIV.

AUTHOR: Donovan B.

CORPORATE SOURCE: Dr. B. Donovan, Sydney Sexual Health Centre, Sydney

Hospital, PO Box 1614, Sydney, NSW 2001, Australia.

donovanb@sesahs.nsw.gov.au

SOURCE: Lancet, (14 Feb 2004) Vol. 363, No. 9408, pp. 545-556.

Refs: 143

ISSN: 0140-6736 CODEN: LANCAO

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 004 Microbiology 006 Internal Medicine

010 Obstetrics and Gynecology

017 Public Health, Social Medicine and Epidemiology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20040311

Last Updated on STN: 20040311

AB Sexually transmitted infections (STIs) are notable for their fastidious requirements for transmission and growth in the laboratory and for their high physical and psychosocial morbidity. The combination of subtle or absent symptoms and stigma preventing the seeking of health care, leaves many infections undiagnosed. The development of nucleic-acid amplification tests heralded a new era in sensitive and robust diagnostic procedures for STIs. Unfortunately, many of these tests are not commercially available or are too expensive for the populations that need them most. Single-dose oral azithromycin has improved the treatment of several bacterial STIs, but quinolones are rapidly becoming ineffective for gonorrhoea. Self-treatment of genital warts with podophyllotoxin or imiquimod preparations is attractive to patients and might be cost effective for health services. The prospect of effective

vaccines against genital papillomaviruses in the near future is real. Such vaccines could reduce the global incidence of some anogenital cancers. Episodic treatment of genital herpes is getting easier and cheaper, and suppressive treatment can reduce transmission to regular sexual partners. A vaccine against herpes simplex virus type 2 has shown some limited efficacy. Ultimately, better control of STIs, and reduction of their contribution to the spread of HIV, will require a broad health-sector response with adequate resourcing, and a change in social and political attitudes.

L14 ANSWER 3 OF 16 EMBASE COPYRIGHT (c) 2005 Elsevier B.V. All rights

reserved on STN

ACCESSION NUMBER: 2004046015 EMBASE TITLE: Anthrax - An overview.

AUTHOR: Oncu S.; Oncu S.; Sakarya S.

CORPORATE SOURCE: S. Oncu, Dept. Infect. Dis./Clin. Microbiol., Medical Faculty, Adnan Menderes University, 09100 Aydin, Turkey.

serkanoncu@hotmail.com

SOURCE: Medical Science Monitor, (2003) Vol. 9, No. 11, pp.

RA276-RA283. Refs: 86

ISSN: 1234-1010 CODEN: MSMOFR

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review FILE SEGMENT: 004 Microbiology

OO5 General Pathology and Pathological Anatomy
O17 Public Health, Social Medicine and Epidemiology

037 Drug Literature Index

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20040212

Last Updated on STN: 20040212

Anthrax, a disease of mammals (including humans), is caused by a spore-forming Gram-positive bacilli called Bacillus anthracis. Anthrax is one of the oldest threats to humanity, and remains endemic in animals in many parts of the world. The incidence of anthrax has decreased in developed countries, but it remains a considerable health problem in developing countries. The disease is transmitted to humans by contact with sick animals or their products, such as wool, skin, meat etc. Capsular polypeptide and anthrax toxin are the principal virulence factors of B. anthracis. Anthrax toxin consists of three proteins called protective antigen, edema factor, and lethal factor, each of which is nontoxic but acts synergistically. Human anthrax has three major clinical forms: cutaneous, inhalational, and gastrointestinal. The diagnosis is easily established in cutaneous cases, characterized by black eschar. Severe intoxication and collapse during the course of bronchopneumonia or hemorrhagic enteritis should prompt suspicion of anthrax. Treatment with antibiotics is mandatory. If untreated, anthrax in all forms can lead to septicemia and death. Recently, considerable attention has been focused on the potential for B. anthracis to be used in acts of biological terrorism. The ease of laboratory production and its dissemination via aerosol led to its adoption by terrorists, as shown by recent events in the USA. A good knowledge of anthrax, its epidemiology, pathogenesis, clinical forms and potential as a biological weapon is essential for timely prevention and treatment. This review summarizes the current knowledge on anthrax.

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ACCESSION NUMBER: 2003291638 EMBASE

Pharmacological interaction of drugs with antigen-specific TITLE:

immune receptors: The p-i concept.

AUTHOR: Pichler W.J.

CORPORATE SOURCE: W.J. Pichler, Inselspital, CH-3010 Bern, Switzerland.

werner.pichler@insel.ch

Current Opinion in Allergy and Clinical Immunology, (2002) SOURCE:

Vol. 2, No. 4, pp. 301-305.

Refs: 36

ISSN: 1528-4050 CODEN: COACCS

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 013 Dermatology and Venereology

026 Immunology, Serology and Transplantation

Drug Literature Index 037 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

Entered STN: 20030731 ENTRY DATE:

Last Updated on STN: 20030731

AB Purpose of review: Drug allergies are examples of immune reactions to small molecular compounds. In many drug allergies drug specific CD4+ and CD8+ T-cells can be detected, which recognize small chemicals via their $\alpha\beta$ -T-cell receptor in a major

histocompatibility complex dependent way. In this review a new concept of drug presentation to T-cells is presented. Recent findings: Drugs were stimulatory for T-cells if they bound covalently to peptides or proteins, but also if the drug had structural features allowing it to bind in a labile way (noncovalently) to the major histocompatibility peptide complex. This latter binding method has some similarities to superantigen

stimulations and can explain allergies to drugs that are not metabolized. It has been described in patients with maculopapular, bullous and neutrophilic drug eruption, as well as in contact dermatitis.

Summary: Noncovalent drug presentation leads to the stimulation of immune cells, namely T-cells. The drug needs two surface molecules (one inert serving as a scaffold, major histocompatibility complex, and one reactive, T-cell receptor) to exert its function. Although two receptor structures are involved, the process is reminiscent of a pharmacological interaction between a drug and its receptors and, from the phrase pharmacological interaction with immune receptors, was thus termed the p-i concept. .COPYRGT. 2002 Lippincott Williams & Wilkins.

L14 ANSWER 5 OF 16 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

2001:574903 BIOSIS ACCESSION NUMBER: PREV200100574903 DOCUMENT NUMBER:

TITLE: Permeability and route of entry for lipid-insoluble

molecules across brain barriers in developing Monodelphis

domestica.

Ek, C. Joakim; Habgood, Mark D.; Dziegielewska, Katarzyna AUTHOR(S):

> M.; Potter, Ann; Saunders, Norman R. [Reprint author] Department of Anatomy and Physiology, University of

CORPORATE SOURCE: Tasmania, Hobart, TAS, 7001, Australia

n.saunders@utas.edu.au

Journal of Physiology (Cambridge), (November 1st, 2001) Vol. 536, No. 3, pp. 841-853. print. SOURCE:

CODEN: JPHYA7. ISSN: 0022-3751.

DOCUMENT TYPE: Article LANGUAGE: English

ENTRY DATE: Entered STN: 12 Dec 2001

Last Updated on STN: 25 Feb 2002

AB 1. We have studied the permeability of blood-brain barriers to small molecules such as (14C) sucrose, (3H) inulin, (14C)L-glucose and (3H)glycerol from early stages of development (postnatal day 6, P6) in South American opossums (Monodelphis domestica), using a litter-based method for estimating steady-state cerebrospinal fluid (CSF)/plasma and brain/plasma ratios of markers that were injected I.P. 2. Steady-state ratios for L-glucose, sucrose and inulin all showed progressive decreases during development. The rate of uptake of L-glucose into the brain and CSF, in short time course experiments (7-24 min) when age-related differences in CSF production can be considered negligible also decreased during development. These results indicate that there is a significant decrease in the permeability of brain barriers to small lipid-insoluble molecules during brain development. 3. The steady-state blood/CSF ratio for 3000 Da lysine-fixable biotin-dextran following I.P. injection was shown to be consistent with diffusion from blood to CSF. It was therefore used to visualise the route of penetration for small lipid-insoluble molecules across brain barriers at PO-30. The proportion of biotin-dextran-positive cells in the choroid plexuses declined in parallel with the age-related decline in permeability to the small -molecular-weight markers; the paracellular (tight junction) pathway for biotin-dextran appeared to be blocked, but biotin-dextran was easily detectable in the CSF. A transcellular route from blood to CSF was suggested by the finding that some choroid plexus epithelial cells contained biotin-dextran. 4. Biotin-dextran was also taken up by cerebral endothelial cells in the youngest brains studied (PO), but in contrast to the CSF, could not be detected in the brain extracellular space (i.e. a significant blood-brain barrier to small-sized lipid-insoluble compounds was already present). However, in immature brains (PO-13) biotin-dextran was taken up by some cells in the brain. These cells generally had contact with the CSF, suggesting that it is likely to have been the 2source of their biotin-dextran. Since the quantitative permeability data suggest that biotin-dextran behaves similarly to the radiolabelled markers used in this study, it is suggested that these markers in the more immature brains were also present intracellularly. Thus, brain/plasma ratios may be a misleading indicator of blood-brain barrier permeability in very immature animals. 5. The immunocytochemical staining for biotin-dextran in the CSF, in contrast to the lack of staining in the brain extracellular space, together with the quantitative permeability data showing that the radiolabelled markers penetrated more rapidly and to a much higher steady-state level in CSF than in the brain, suggests that lipid-insoluble molecules such as sucrose and inulin reach the immature brain predominantly via the CSF rather than directly across the very few blood vessels that are present at that time.

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ACCESSION NUMBER: 2001408881 EMBASE

TITLE: The bacterial flora in inflammatory bowel

disease: Current insights in pathogenesis and the

influence of antibiotics and probiotics.

AUTHOR: Linskens R.K.; Huijsdens X.W.; Savelkoul P.H.M.;

Vandenbroucke-Grauls C.M.J.E.; Meuwissen S.G.M.

CORPORATE SOURCE: Dr. R.K. Linskens, Dept. of Gastroenterology, Vrije

CORPORATE SOURCE: DI. K.K. HINSKENS, Dept. Of Gastioenterloopy, Vilje

Universiteit Medical Centre, De Boelelaan 1117, 1057 HV

Amsterdam, Netherlands. r.linskens@Yumc.nl

SOURCE: Scandinavian Journal of Gastroenterology, Supplement,

(2001) Vol. 36, No. 234, pp. 29-40.

Refs: 166

ISSN: 0085-5928 CODEN: SJGSB8

COUNTRY: Norway

DOCUMENT TYPE: Journal; Conference Article

FILE SEGMENT: 004 Microbiology

009 Surgery 030 Pharmacology

037 Drug Literature Index

048 Gastroenterology

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 20011206

Last Updated on STN: 20011206

AB The pathogenesis of inflammatory bowel disease (IBD) remains unknown, although in recent years more data have become available. The contribution of genetic and environmental factors is evident, and the luminal bacterial flora plays a major role in the initiation and perpetuation of chronic IBD. Animal models of IBD have shown that colitis does not occur in a germ-free environment. In human IBD, inflammation is present in parts of the gut containing the highest bacterial concentrations. Moreover, the terminal ileum, caecum and rectum are areas of relative stasis, providing prolonged mucosal contact with luminal contents. Enhanced mucosal permeability may play a pivotal role in maintaining a chronic inflammatory state, due to a genetic predisposition or as a result of direct contact with bacteria or their products. A defective epithelial barrier may cause a loss of tolerance to the normal enteric flora. Furthermore, an increased mucosal absorption of viable bacteria and bacterial products is found in IBD. Serum and secreted antibodies are increased and mucosal T-lymphocytes that recognize luminal bacteria are present. However, there is evidence that the immune system reacts over aggressively towards the normal luminal flora rather than the flora being altered in IBD. Several approaches have been used in attempts to discover a specific microbial agent in the cause of IBD. These include demonstration of the presence of organisms or specific antigens in affected tissues, culture of microbes from the affected tissues, demonstration of serological responses to several agents, and localization and detection of individual pathogen-specific nucleic acid sequences in affected tissue by in situ hybridization and polymerase chain reaction. So far, no specific micro-organism has been directly associated with the pathogenesis of IBD. Analysis of the luminal enteric flora, however, has revealed differences in the composition of this flora compared to healthy controls. In Crohn disease, concentrations of Bacteroides, Eubacteria and Peptostreptococcus are increased, whereas Bifidobacteria numbers are significantly reduced. Furthermore, in ulcerative colitis, concentrations of facultative anaerobic bacteria are increased. The arrival of new molecular techniques qualifying and quantifying the complex intestinal flora has induced a revival of interest in this microflora. Therapeutic approaches geared towards changing the environment at the mucosal border have been attempted by the use of elemental diets, total parenteral nutrition, surgical diversion of the faecal stream and antibiotics. Over the past few years, the use of probiotics in IBD and other intestinal disorders has gained attention. Strengthened by promising experimental data and commercial interests, research in this field is rapidly expanding. Manipulation of the colonic bacteria with antibiotic drugs and probiotic agents may prove to be more effective and better tolerated than immunosuppressants in the future.

L14 ANSWER 7 OF 16 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1997:18418 BIOSIS DOCUMENT NUMBER: PREV199799317621

TITLE: Lactic acid bacteria in food: Use and safety.

AUTHOR(S): Desmazeaud, Michel

CORPORATE SOURCE: INRA, Unite de Recherches Laitieres, 78352 Jouy-en-Josas

cedex, France

SOURCE: Cahiers Agricultures, (1996) Vol. 5, No. 5, pp. 331-343.

ISSN: 1166-7699.

DOCUMENT TYPE: Article LANGUAGE: French

ENTRY DATE: Entered STN: 15 Jan 1997

Last Updated on STN: 23 Jan 1997

AB Lactic acid bacteria have an essential role in most food and beverage fermentation processes, one of the earliest known food preservation methods. Species used in the preparation of fermented foods and beverages belong to the following genera: Lactococcus, Lactobacillus, Leuconostoc, Pediococcus, Streptococcus, and sometimes Carnobacterium, Enterococcus and Bifidobacterium. main role of lactic acid bacteria in food manufacturing is to acidify raw materials by producing large amounts of lactic acid (homofermentative bacteria), or lactic acid, along with acetic acid, ethanol, CO-2 (heterofermentative bacteria), from energy sources (carbon hydrates such as lactose, glucose, fructose and sucrose). Mechanisms of sugar transport in cells differ according to species. Lactococci, for instance, have a system for lactose and glucose transport, i.e. the phosphoenolpyruvate (PEP)-dependent phosphotransferase system (PTS). Leuconostoc, several Lactobacilli and Streptococcus thermophilus have a permease system. In addition, the growth of these bacteria on raw material depends on their cell-wall proteinase system to degrade protein (casein in milk), enabling them to acquire essential nitrogenous compounds (amino acids and peptides). Furthermore, several bacterial species are responsible for producing flavours and aromas in cultured products. Citrate is an important substrate for the production of butter flavour (diacetyl). Lactic acid bacteria also have a complex proteolytic system that functions during product This amino acid and peptide production also generates flavour. Lactic acid bacteria can produce a variety of antimicrobial compounds, which may affect both the bacteria and undesirable or pathogenic strains. Oxygen metabolites (hydrogen peroxide and free radicals) exhibit bacteriostatic or bactericidal activity. Inhibitory compounds are formed when hydrogen peroxide is associated with the lactoperoxidase/thiocyanate system. Bacteriocins can be produced by most lactic acid bacteria , nisin being used for safety by elimination of sporulated bacteria or Listeria monocytogenes. In dairy industries, lactic acid bacteria are responsible for milk acidification and curd formation (with rennet) in cheese-making, and yoghurt or fermented milk production. During cheese ripening, the milk protein (casein) is degraded into large and small polypeptides, and into amino acids, leading to aroma release. In yoghurt, thermophilic bacteria produce acetaldehyde, the main flavour compound, and polysaccharides which give texture. Lactic acid bacteria naturally present in grapes ensure malolactic fermentation in red wine, including the transformation of L-malic acid into lactic acid, after alcoholic fermentation. Bacteria is used worldwide for transforming plant materials, and provide an inexpensive means of presenting foods in the tropics. Lactobacillus sake, L. curvatus, Carnobacterium piscicola and C. divergens are the main species found in meat products. They acidify the substrate, and also modify flavour, colour and hygienic stability. Several potential health and nutritional benefits are possible through some lactic acid bacteria species, including: improved nutritional value for food, control of intestinal infections, improved lactose digestion, control of some types of cancer, and control of

mineralization and serum cholesterol levels. The first contact of ingested lactic acid bacteria with the immune system occurs in gut-associated lymphoid tissue. This increases the secretion of specific antibodies, the percentage of B lymphocytes in Peyer's patches, and proliferative responses of these cells to stimulants. Iatrogenic cases reported in the literature, although extremely rare, suggest that lactic acid bacteria are becoming pathogenic. Indeed, in such cases, there is always a severe underlying disease, and often an obvious portal of entry. Construction of recombinant strains of lactic acid bacteria has become an important objective for solving industrial fermentation problems. Food-grade recombinant strains can now be obtained by new genetic methods. In conclusion, lactic acid bacteria have long been consumed by people throughout the world, and there is still insufficient evidence to suggest that their use in food fermentations could be dangerous.

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ACCESSION NUMBER: 96214082 EMBASE

DOCUMENT NUMBER: 1996214082

Degradation of pyrimidine ribonucleosides by Pseudomonas TITLE:

aeruginosa.

AUTHOR: West T.P.

Department of Biological Sciences, University of Southern CORPORATE SOURCE:

Mississippi, Hattiesburg, MS 39406, United States Antonie van Leeuwenhoek, International Journal of General SOURCE:

and Molecular Microbiology, (1996) Vol. 69, No. 4, pp.

331-335.

ISSN: 0003-6072 CODEN: ALJMAO

COUNTRY: Netherlands DOCUMENT TYPE: Journal; Article FILE SEGMENT: 004 Microbiology

> 029 Clinical Biochemistry

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 960814

Last Updated on STN: 960814

Pyrimidine ribonucleoside degradation in the human pathogen AΒ Pseudomonas aeruginosa ATCC 15692 was investigated. Either uracil, cytosine, 5-methylcytosine, thymine, uridine or cytidine supported P. aeruginosa growth as a nitrogen source when glucose served as the carbon source. Using thin-layer chromatographic analysis, the enzymes nucleoside hydrolase and cytosine deaminase were shown to be active in ATCC 15692. Compared to (NH4)2SO4-grown cells, nucleoside hydrolase activity in ATCC 15692 approximately doubled after growth on 5-methylcytosine as a nitrogen source while its cytosine deaminase activity increased several-fold after growth on the pyrimidine bases and ribonucleosides examined as nitrogen sources. Regulation at the level of protein synthesis by 5-methylcytosine was indicated for nucleoside hydrolase and cytosine deaminase in P. aeruginosa.

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95097536 EMBASE ACCESSION NUMBER:

DOCUMENT NUMBER: 1995097536

TITLE: Tetrabrachion: A filamentous archaebacterial

surface protein assembly of unusual structure and extreme

stability.

AUTHOR: Peters J.; Nitsch M.; Kuhlmorgen B.; Golbik R.; Lupas A.;

Kellermann J.; Engelhardt H.; Pfander J.-P.; Muller S.;

Goldie K.; Engel A.; Stetter K.-O.; Baumeister W.

CORPORATE SOURCE: Max-Planck-Institut fur Biochemie, Am Klopferspitz

18a, D-82152 Martinsried, Germany

SOURCE: Journal of Molecular Biology, (1995) Vol. 245, No. 4, pp.

385-401.

ISSN: 0022-2836 CODEN: JMOBAK

COUNTRY: United Kingdom
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 004 Microbiology

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 950412

Last Updated on STN: 950412

AB The surface (S-) layer of the hyperthermophilic archaebacterium Staphylothermus marinus was isolated, dissected into separate domains by chemical and proteolytic methods, and analyzed by spectroscopic, electron microscopic and biochemical techniques. The S-layer is formed by a poorly ordered meshwork of branched, filiform morphological subunits resembling dandelion seed-heads. A morphological subunit (christened by us tetrabrachion) consists of a 70 nm long, almost perfectly straight stalk ending in four straight arms of 24 nm length that provide lateral connectivity by end-to-end contacts. At 32 nm. from the branching point, tetrabrachion carries two globular particles of 10 nm diameter that have both tryptic and chymotryptic protease activity. Tetrabrachion is built by a tetramer of M(r) 92,000 polypeptides that form a parallel, four-stranded α -helical rod and separate at one end into four strands. These strands interact in a 1:1 stoichiometry with polypeptides of M(r) 85,000 to form the arms. The arms are composed entirely of $\beta\mbox{-sheets.}$ All S-layer components contain bound carbohydrates (glucose, mannose, and glucosamine) at a ratio of 38 g/100 g protein for the complete tetrabrachion-protease complex. The unique structure of tetrabrachion is reflected in an extreme thermal stability in the presence of strong denaturants (1% (w/v) SDS of 6M guanidine): the arms, which are stabilized by intramolecular disulphide bridges, melt around 115°C under non-reducing conditions, whereas the stalk sustains heating up to about $130\,^\circ\text{C}$. Complete denaturation of the stalk domain requires treatment with 70% (v/v) sulfuric acid or with fuming trifluoromethanesulfonic acid. The globular protease can be heated to 90°C in 6M guanidine and to 120°C in 1% SDS and represents one of the most stable proteases characterized to date.

L14 ANSWER 10 OF 16 MEDLINE ON STN ACCESSION NUMBER: 94110215 MEDLINE DOCUMENT NUMBER: PubMed ID: 8282686

TITLE: Determination of the growth rate-regulated steps in expression of the Escherichia coli K-12 gnd gene.

AUTHOR: Pease A J; Wolf R E Jr

CORPORATE SOURCE: Department of Biological Sciences, University of Maryland

Baltimore County, Catonsville 21228.

CONTRACT NUMBER: GM27113 (NIGMS)

SOURCE: Journal of bacteriology, (1994 Jan) 176 (1) 115-22.

Journal code: 2985120R. ISSN: 0021-9193.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199402

ENTRY DATE: Entered STN: 19940228

Last Updated on STN: 19940228 Entered Medline: 19940214

In Escherichia coli K-12 strain W3110, the amount of 6-phosphogluconate AB dehydrogenase relative to that of total protein, i.e., the specific enzyme activity, increases about threefold during growth in minimal media over the range of growth rates with acetate and glucose as sole carbon sources. Previous work with qnd-lac operon and protein fusion strains indicated that two steps in the expression of the gnd gene are subject to growth rate-dependent control, with at least one step being posttranscriptional. With both Northern (RNA) and slot blot analyses, we found that the amount of gnd mRNA relative to that of total RNA was 2.5-fold higher in cells growing in glucose minimal medium than in cells grown on acetate. Therefore, since the total mRNA fraction of total RNA is essentially independent of the growth rate, the amount of gnd mRNA relative to that of total mRNA increases about 2.5-fold with increasing This indicates that most of the growth rate-dependent growth rate. increase in 6-phosphogluconate dehydrogenase can be accounted for by the growth rate-dependent increase in gnd mRNA level. We measured the decay of gnd mRNA mass in the two growth conditions after blocking transcription initiation with rifampin and found that the stability of gnd mRNA does not change with growth rate. We also used a gnd-lacZ protein fusion to measure the functional mRNA half-life and found that it too is growth rate independent. Thus, the growth rate-dependent increase in the level of gnd mRNA is due to an increase in gnd transcription, and this increase is sufficient to account for the growth rate regulation of the 6-phosphogluconate dehydrogenase level. The dilemma posed by interpretations of the properties of gnd-lac fusion strains and by direct measurement of gnd mRNA level is discussed.

L14 ANSWER 11 OF 16 MEDLINE ON STN ACCESSION NUMBER: 95140058 MEDLINE DOCUMENT NUMBER: PubMed ID: 7838186

TITLE: Hexose-monophosphate shunt activity in intact Plasmodium

falciparum-infected erythrocytes and in free parasites.

AUTHOR: Atamna H; Pascarmona G; Ginsburg H

CORPORATE SOURCE: Department of Biological Chemistry, Hebrew University,

Jerusalem, Israel.

SOURCE: Molecular and biochemical parasitology, (1994 Sep) 67 (1)

79-89.

Journal code: 8006324. ISSN: 0166-6851.

PUB. COUNTRY: Netherlands

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199502

ENTRY DATE: Entered STN: 19950314

Last Updated on STN: 19970203 Entered Medline: 19950228

The hexose monophosphate shunt (HMS) produces NADPH for reductive antioxidant protection and for metabolic regulation, as well as ribose-5-phosphate needed for the synthesis of nucleic acids. Since malaria-infected red blood cells (RBC) are under endogenous oxidant stress, it was interesting to determine HMS activity in intact infected cells, as well as in free parasites. HMS activity was determined by measuring the evolution of 14CO2 from D-[1-14C]glucose in normal RBC, in intact Plasmodium falciparum-infected RBC (IRBC) and in free parasites. The HMS activity of IRBC was found to be 78 times higher than that of normal RBC. This activity increased with parasite maturation from the ring stage toward the trophozoite stage, and declined at the schizont stage. The HMS activity of the parasite contributes 82% of the total observed in the intact IRBC, and that of the host cell is increased some 24-fold. The increased reducing capacity of

IRBC and free parasites were also evidenced by the larger ability for reductive accumulation of methylene blue. Since the endogenous oxidative stress is produced by the parasite digestion of the host cell's hemoglobin, inhibition of this process with protease inhibitors, by alkalinization of the parasite's food vacuole, or by the application of antimalarial drugs, resulted in 20-44% inhibition of IRBC HMS activity. A similar inhibition was observed in the presence of scavengers of oxidative radicals, uric and benzoic acids. These inhibitors had only a minor effect on the HMS activity of free parasites. D-[1-14C]glucose and D-[6-14C]glucose contributed equally to newly synthesized nucleic acids, suggesting that ribose-5-phosphate needed for this synthesis is contributed by the non-oxidative activity of HMS. These results imply that a major portion of parasite HMS activity and the activated HMS of the host cell are devoted to counteract the endogenously generated oxidative stress.

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ACCESSION NUMBER: 92221407 EMBASE

DOCUMENT NUMBER: 1992221407

TITLE: Campylobacters and enteritis.

AUTHOR: Healing T.D.; Greenwood M.H.; Pearson A.D.

CORPORATE SOURCE: Communicable Disease Centre, Public Health Laboratory

Service, 61 Colindale Avenue, London NW9 5EQ, United Kingdom

SOURCE: Reviews in Medical Microbiology, (1992) Vol. 3, No. 3, pp.

159-167.

ISSN: 0954-139X CODEN: RMEMER

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review FILE SEGMENT: 004 Microbiology

017 Public Health, Social Medicine and Epidemiology

037 Drug Literature Index

048 Gastroenterology

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 920816

Last Updated on STN: 920816

AB Campylobacters are the bacteria most frequently

reported as causing acute enteritis in the UK and most developed countries. They have been isolated from a wide range of domestic and wild birds and mammals as well as from man. 15 species have been described, but two (Campylobacter jejuni and C. coli) are particularly associated with human enteric infection. Infections with enteric campylobacters are seasonal in England and Wales, reaching a peak at the end of May, and the majority of these infections are apparently sporadic. About 10% are contracted abroad. Most human infections are transmitted by milk, water and poultry or via contact with pets or other domestic animals. The organisms do not multiply on foodstuffs and are rarely transmitted from person to person.

L14 ANSWER 13 OF 16 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 1982:273559 BIOSIS

DOCUMENT NUMBER: PREV198274046039; BA74:46039

TITLE: THE ROLE OF ENDOGENOUS GASTRIC INHIBITORY POLY PEPTIDE IN

THE ENTERO INSULAR AXIS.

AUTHOR(S): TAKEMURA J [Reprint author]; SEINO Y; YAMAMURA T; TSUDA K;

SEINO S; ITOH N; IMURA H

CORPORATE SOURCE: SECOND DIV, DEP MED, KYOTO UNIV SCHOOL OF MED, 54 SHOGOIN

KAWAHARA-CHO, SAKYO-KU, KYOTO 606, JAPAN

SOURCE:

Journal of Clinical Endocrinology and Metabolism, (1982)

Vol. 54, No. 5, pp. 909-913. CODEN: JCEMAZ. ISSN: 0021-972X.

DOCUMENT TYPE: FILE SEGMENT: LANGUAGE:

Article BA

ENGLISH

To elucidate the relationship between the release of gastric inhibitory polypeptide (GIP) and insulin, plasma GIP and insulin concentration responses to meal ingestion were compared in normal subjects and patients with various surgical modifications of the food pathway. Nine patients with Billroth I partial gastrectomy (BI), 7 patients with Billroth II partial gastrectomy (BII) and 6 patients with total gastrectomy (TG) were tested. In BI patients the increase in blood glucose was similar to that in normal subjects, but the response was significantly greater in BII and TG patients. In TG patients blood glucose rose significantly higher in response to a standard meal than in all other groups. In TG patients blood glucose rose significantly higher in response to a standard meal than in all other groups. In BI patients the mean peak GIP level after meal ingestion was significantly higher than in normal subjects. In BII and TG patients an extremely exaggerated GIP response after the meal was observed. The insulin response to feeding was increased only in the BII and TG patients. Since the insulin response was enhanced only when both the glucose and GIP responses were magnified, endogenous GIP may be a glucose-dependent insulinotropic factor. In addition, from the fact that meal-stimulated GIP release is most marked in

L14 ANSWER 14 OF 16 MEDLINE ON STN ACCESSION NUMBER: 83118789 MEDLINE DOCUMENT NUMBER: PubMed ID: 6130578

stimulus for GIP release.

TITLE:

[Absorption of substances dissolved in the environment, particles and products of extracellular digestion in

Actinia equina (Cnidaria, Actiniaria)].

patients with total gastrectomy, the direct contact of food with

the GIP-producing cells, apparently is a strong mechanical or chemical

Absorption des substances dissoutes dans le milieu, des particules et des produits de la digestion extracellulaire

chez Actinia equina (Cnidaria, Actiniaria).

AUTHOR: Van Praet M

SOURCE: Reproduction, nutrition, development, (1980) 20 (4B)

1393-9.

Journal code: 8005903. ISSN: 0181-1916.

PUB. COUNTRY: France

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: French

FILE SEGMENT: Priority Journals

ENTRY MONTH: 198303

ENTRY DATE: Entered STN: 19900318

Last Updated on STN: 19950206 Entered Medline: 19830311

The results of nutrition experiments with glucose 14C, leucine 3H, amino acids 14C, cyanophyceae 14C and lipids have permitted me to enlarge our present knowledge of actinian nutrition. Ectodermal absorption.—Glucose and amino acids dissolved in the sea-environment were rapidly absorbed by the ectoderm. The multiple tentacles of Actinia and their cell microvilli enlarged the ectodermal surface. There is no preoral digestion, and the macromolecules were not absorbed since the ectoderm does not possess phagocytic cells. Digestion and endodermal absorption.—Macromolecules, particles and prey were carried into the coelenteron. The prey were enclosed in the convoluted lower part of mesenteries where they were

divided into fragments and molecules by enzymes secreted by the zymogen cells of the mesenterial filaments. The macromolecules, particles and prey fragments (up to a few micrometers) produced by this extracellular digestion, or collected in the environment, were absorbed by the phagocytic cells. The lipids were pinocyted by the same cells concentrated in some parts of the endoderm, but the smallest molecules (carbohydrates and amino acids) were immediately absorbed by the mesenterial filament cells in contact with the prey. The transfer (in both directions) of the different absorbed substances between the ectoderm and the endoderm was slow. Glucose seemed to diffuse through the mesoglea, while the amino acids and the macromolecules would be transferred by the mobile cells of the mesoglea.

L14 ANSWER 15 OF 16 MEDLINE ON STN ACCESSION NUMBER: 77032786 MEDLINE DOCUMENT NUMBER: PubMed ID: 979031

TITLE: [Special indications for the use of soft contact

lenses as a drug-release-system (author's transl)]. Besondere Indikationen fur die Anwendung weicher Kontaktlinsen als Augentropfenreservoir (Drug Release

System).

AUTHOR: Bietti G B; De Caro G; Giraldi J P; Romani E

SOURCE: Klinische Monatsblatter für Augenheilkunde, (1976 Jan) 168

(1) 33-43.

Journal code: 0014133. ISSN: 0023-2165.
PUB. COUNTRY: GERMANY, WEST: Germany, Federal Republic of

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: German

FILE SEGMENT: Priority Journals

ENTRY MONTH: 197612

ENTRY DATE: Entered STN: 19900313

Last Updated on STN: 19980206 Entered Medline: 19761230

Research has been performed, both experimentally and clinically, to AB establish the value of the association of soft contact lenses and some types of eye drops. The use of soft contact lenses with eye drops may be useful in some special cases: a) more prolonged and more sustained effect compared with the usual way of administration of eye drops (especially antiglaucomatous substances, antimetabolites, mydriatics); b) possibility of reducing the concentration to avoid local discomfort or systemic side-effects, without loss of their effectiveness on the eye conditions to be treated. The combined use of soft lenses (12.5-15 mm in diameter) with eye drops may be obtained either by presoaking the lens in the liquid or by regular instillation of eye drops after insertion of the lens; the two techniques may of course be associated. In the present research the advantages of utilizing hydrophylic lenses with osmotically active substances, to obtain a better and more protracted dehydration of the cornea, were first examined, in vitro and in vivo. The following substances were tested: 10% propylenglycol, 10% glycerol, 10% glucose and 5% natrium chloride. The clearing effect of the different types of treatment was evaluated in 45 patients with edematous bullous keratopathy with an instrument which measured the infrared light emitted by an optic fiber and reflected by the cornea. The effects were more marked for the epithelial than for the stromal oedema. Another group of investigations was performed with two polypeptides with high molecular weight: Eledoisin, extracted from a mediterranean octopus, Eledone moschata, and Physalaemin, extracted from the skin of a south american batrachian, Physalaemus fuscomaculatus, both of these stimulate the lacrimal secretion and were previously successfully employed topically by the authors against

keratoconjunctivitis sicca. The increase of the amount of fluid was however short-lived. Eledoisin at a concentration of 200 mug/ml, was examined in its effects both in vitro and in vivo, whereas physalaemin, at a concentration of 20 mug/ml, only in vitro, owing to the present shortage of the product. The clinical tests in 23 eyes of 14 patients with keratoconjunctivitis sicca proved satisfactory, since the lacrymal stimulating effect is not only greater, but lasts three times longer by combining the instillation of eledoisin with a presoaked soft lens. Some antiglaucomatous products (propranolol, clonidine, prostigmine) were, finally, used in association with a soft lens to reduce the concentration of the eye drops for a better tolerance locally (propranolol: a beta-adrenergic blocking agent) or generally (clonidine: alpha-adrenergic agent), also with the advantage of protracted release. With propranolol the concentration could be reduced to 0.01-0,10% (instead of 0.125 to 0.25%) and to 1.5% (instead of 3%) with prostigmine, when lenses were presoaked or instillations took place at regular time intervals, after insertion of the lenses.

L14 ANSWER 16 OF 16 MEDLINE on STN 76127534 ACCESSION NUMBER: MEDLINE DOCUMENT NUMBER: PubMed ID: 1250692

Preferential protection of the minor groove of non-operator TITLE:

DNA by lac repressor against methylation by dimethyl

sulphate.

AUTHOR: Kolchinsky A M; Mirzabekov A D; Gilbert W; Li L Nucleic acids research, (1976 Jan) 3 (1) 11-8. Journal code: 0411011. ISSN: 0305-1048. SOURCE:

PUB. COUNTRY: ENGLAND: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

Priority Journals FILE SEGMENT:

197604 ENTRY MONTH:

Entered STN: 19900313 ENTRY DATE:

Last Updated on STN: 19900313 Entered Medline: 19760430

The binding of lactose repressor to non-operator DNA was studied by the AB modification of several DNA's, including glycosylated DNA, with dimethyl sulphate, which affects the minor and major grooves of DNA and single stranded DNA regions. The non-specific binding of the repressor to DNA protected the minor groove but apparently not the major groove of the DNA double helix against methylation and did not increase the content of single stranded DNA regions. This suggests that the repressor on binding to non-operator DNA makes contacts mainly in the minor groove of DNA and does not uncoil the DNA double helix. This is different from the interaction of the repressor with lactose operator DNA which occurs, as shown by Gilbert et al. (1), along both the major and the minor groove.

Weddington 10/031,339

04/10/2005

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L3 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:833256 HCAPLUS

DOCUMENT NUMBER: 135:369161

TITLE: Compounds and methods for regulating bacterial growth

and pathogenesis

INVENTOR(S): Bassler, Bonnie L.; Dammel, Carol S.; Schauder,

Stephan; Shokat, Kevan; Stein, Jeffrey; Surette,

Michael G.

PATENT ASSIGNEE(S): Princeton University, USA; Quorex Pharmaceuticals,

Inc.; University Technologies International, Inc.

SOURCE: PCT Int. Appl., 134 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

	PATENT NO.					KIND		DATE		APPLICATION NO.						DATE			
	WO 2001085664 WO 2001085664 WO 2001085664					A3		20020808		WO 2001-US15221						20010510			
		₩:	CR, HU, LU, SD,	CU, ID, LV,	CZ, IL, MA, SG,	DE, IN, MD,	DK, IS, MG,	DM, JP, MK,	DZ, KE, MN,	EE, KG, MW,	ES KE MX	B, BG, S, FI, P, KR, K, MZ, R, TT,	GB, KZ, NO,	GD, LC, NZ,	GE, LK, PL,	GH, LR, PT,	GM, LS, RO,	HR, LT, RU,	
			GH, KZ, IE,	GM, MD, IT,	KE, RU, LU,	TJ, MC,	TM,	AT,	BE, SE,	CH,	CY	Z, TZ, Z, DE, F, BJ,	DK,	ES,	FI,	FR,	GB,	GR,	
		AU 2001059734								AU 2001-59734									
	ΕP								EP 2001-933298										
		R:										R, IT,	LI,	LU,	NL,	SE,	MC,	PT,	
	US 6559176 JP 2003532698				T2 20031105				US 2001-853832 JP 2001-582266				20010510						
	US 2004097402 US 6780890				B2 200408			0320		03 2002-300616					20021119				
US 2004180829 PRIORITY APPLN. INFO.:											US US US US	2004- 2000- 2000- 2000- 2001- 2001-	-2030 -2543 -2029 -8538	00P 98P 99P 32		P 2 P 2 P 2 A3 2	20040 20000 20001 20000 20010	510 207 510 510	
												2002-							
OTHER SOURCE(S):						MAR	MARPAT 135:3691												

OTHER SOURCE(S): MARPAT 135:369161

AB The invention provides autoinducer-2 analogs that regulate the activity of autoinducer-2 and methods of using such analogs for regulating bacterial growth and pathogenesis.

IT 50-99-7, D-Glucose, biological studies 69-53-4,
 Ampicillin 127-69-5, Sulfisoxazole 488-10-8,
 cis-Jasmone 488-86-8, Croconic acid 527-50-4,
 L-threo-2-Pentulose 2758-18-1, 3-Methyl-2-cyclopenten-1-one
 3658-77-3, 3(2H)-Furanone, 4-hydroxy-2,5-dimethyl 4077-47-8 5694-72-4 13436-46-9,
 2-Ethoxytetrahydrofuran 18766-96-6, 3-Acetoxycyclopent-2-en-1-

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one 18871-14-2 19322-27-1 25564-22-1,
     2-Pentyl-2-cyclopenten-1-one 26494-13-3 27538-10-9,
    3(2H)-Furanone, 2-ethyl-4-hydroxy-5-methyl- 27538-11-0
    29119-49-1 33673-62-0 35205-76-6
    50632-57-0, 3(2H)-Furanone, 2-methoxy-2,4-diphenyl-
    54458-61-6, 2,3,4,5-Tetramethyl-2-cyclopentenone
    59995-48-1 60047-17-8 68043-00-5
    80436-90-4, 2-Cyclopenten-1-one, 2-acetyl- 85721-33-1,
    Ciprofloxacin 95962-14-4 200010-29-3
    200010-31-7 204514-85-2 373380-18-8
    373380-19-9 373380-20-2 373380-21-3
    373380-22-4 373380-23-5
    RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); BIOL (Biological study)
        (compds. and methods for regulating bacterial growth and pathogenesis)
RN
    50-99-7 HCAPLUS
CN
    D-Glucose (8CI, 9CI)
                          (CA INDEX NAME)
```

Absolute stereochemistry.

RN 69-53-4 HCAPLUS
CN 4-Thia-1-azabicyclo[3.2.0]heptane-2-carboxylic acid, 6-[[(2R)aminophenylacetyl]amino]-3,3-dimethyl-7-oxo-, (2S,5R,6R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 127-69-5 HCAPLUS
CN Benzenesulfonamide, 4-amino-N-(3,4-dimethyl-5-isoxazolyl)- (9CI) (CA INDEX NAME)

RN 488-10-8 HCAPLUS

CN 2-Cyclopenten-1-one, 3-methyl-2-(2Z)-2-pentenyl- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

RN 488-86-8 HCAPLUS

CN 4-Cyclopentene-1,2,3-trione, 4,5-dihydroxy- (7CI, 8CI, 9CI) (CA INDEX NAME)

RN 527-50-4 HCAPLUS

CN L-threo-2-Pentulose (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 2758-18-1 HCAPLUS

CN 2-Cyclopenten-1-one, 3-methyl- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)

O Me

RN 3658-77-3 HCAPLUS

CN 3(2H)-Furanone, 4-hydroxy-2,5-dimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Me O Me

RN 4077-47-8 HCAPLUS

CN 3(2H)-Furanone, 4-methoxy-2,5-dimethyl- (7CI, 8CI, 9CI) (CA INDEX NAME)

Me O Me

RN 5694-72-4 HCAPLUS

CN 1,3-Dioxolane-4-methanol, 2-(phenylmethyl)- (9CI) (CA INDEX NAME)

HO-CH₂OCH₂-Ph

RN 13436-46-9 HCAPLUS

CN Furan, 2-ethoxytetrahydro- (7CI, 8CI, 9CI) (CA INDEX NAME)

OOEt

RN 18766-96-6 HCAPLUS

CN 2-Cyclopenten-1-one, 3-(acetyloxy)- (9CI) (CA INDEX NAME)

OAc OAc

RN 18871-14-2 HCAPLUS

CN 2H-Pyran-4-ol, tetrahydro-3-pentyl-, acetate (8CI, 9CI) (CA INDEX NAME)

RN 19322-27-1 HCAPLUS

CN 3(2H)-Furanone, 4-hydroxy-5-methyl- (8CI, 9CI) (CA INDEX NAME)

RN 25564-22-1 HCAPLUS

CN 2-Cyclopenten-1-one, 2-pentyl- (6CI, 8CI, 9CI) (CA INDEX NAME)

$$O$$
 (CH₂)₄ - Me

RN 26494-13-3 HCAPLUS

CN 3(2H)-Thiophenone, 2-ethyl-4-hydroxy-5-methyl- (8CI, 9CI) (CA INDEX NAME)

RN 27538-10-9 HCAPLUS

CN 3(2H)-Furanone, 2-ethyl-4-hydroxy-5-methyl- (8CI, 9CI) (CA INDEX NAME)

RN 27538-11-0 HCAPLUS

CN 3(2H)-Furanone, 2,5-diethyl-4-hydroxy- (8CI, 9CI) (CA INDEX NAME)

RN 29119-49-1 HCAPLUS

CN 2-Cyclopenten-1-one, 2-(2-pentenyl)- (8CI, 9CI) (CA INDEX NAME)

RN 33673-62-0 HCAPLUS

CN 2(3H)-Furanone, dihydro-4-methyl-5-pentyl- (8CI, 9CI) (CA INDEX NAME)

O (CH₂)
$$_4$$
 – Me

RN 35205-76-6 HCAPLUS

CN 2-Nonenoic acid, 3-methyl- (7CI, 9CI) (CA INDEX NAME)

RN 50632-57-0 HCAPLUS

CN 3(2H)-Furanone, 2-methoxy-2,4-diphenyl- (9CI) (CA INDEX NAME)

RN 54458-61-6 HCAPLUS

CN 2-Cyclopenten-1-one, 2,3,4,5-tetramethyl- (6CI, 7CI, 9CI) (CA INDEX NAME)

RN 59995-48-1 HCAPLUS

CN 2-Cyclopenten-1-one, 4-(acetyloxy)-, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

RN 60047-17-8 HCAPLUS

CN 2-Furanmethanol, 5-ethenyltetrahydro- α , α , 5-trimethyl- (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} \text{Me} & \text{OH} \\ \text{C-Me} \\ \text{Me} \end{array}$$

RN 68043-00-5 HCAPLUS

CN 2-Cyclopenten-1-one, 3-methyl-2-(2-pentenyl)- (7CI, 9CI) (CA INDEX NAME)

RN 80436-90-4 HCAPLUS

CN 2-Cyclopenten-1-one, 2-acetyl- (9CI) (CA INDEX NAME)

RN 85721-33-1 HCAPLUS

CN 3-Quinolinecarboxylic acid, 1-cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-7-(1-piperazinyl)- (9CI) (CA INDEX NAME)

RN 95962-14-4 HCAPLUS CN Cyclopentanone, 2-[2-(4-methyl-3-cyclohexen-1-yl)propyl]- (9CI) (CA INDEX

RN 200010-29-3 HCAPLUS CN L-Methionine, L-tyrosyl-L-seryl-L-threonyl-L-cysteinyl-L- α -aspartyl-L-phenylalanyl-L-isoleucyl-, (8-4)-thiolactone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

∕ Ph

RN 200010-31-7 HCAPLUS

CN L-Phenylalanine, glycyl-L-valyl-L-asparaginyl-L-alanyl-L-cysteinyl-L-seryl-L-seryl-L-seryl-L-leucyl-, $(9\rightarrow5)$ -thiolactone (9CI) (CA INDEX NAME)

RN 204514-85-2 HCAPLUS

CN 2-Cyclopenten-1-one, 4,5-dihydroxy- (9CI) (CA INDEX NAME)

RN 373380-18-8 HCAPLUS

CN 4-Cyclopentene-1, 3-dione, 4-hydroxy-2, 5-dimethyl- (9CI) (CA INDEX NAME)

373380-19-9 HCAPLUS RN

2-Butanone, 4-[4-hydroxy-3-(methoxymethyl)phenyl]- (9CI) (CA INDEX NAME) CN

RN

373380-20-2 HCAPLUS 2-Pentanone, 5,5-dihydroxy- (9CI) (CA INDEX NAME) CN

RN 373380-21-3 HCAPLUS

1,3-Dioxolan-4-ol, 2-(phenylmethyl)- (9CI) (CA INDEX NAME) ÇN

$$HO \longrightarrow CH_2 - Ph$$

RN 373380-22-4 HCAPLUS

L-Phenylalanine, glycyl-L-valyl-L-asparaginyl-L-alanyl-L-cysteinyl-L-seryl-CN L-seryl-L-leucyl-, (9-7)-lactone (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 373380-23-5 HCAPLUS

CN L-Phenylalanine, glycyl-L-valyl-L-asparaginyl-L-alanyl-3-amino-L-alanyl-Lseryl-L-seryl-L-leucyl-, $(9\rightarrow 5)-lactam$ (9CI) (CA INDEX NAME)

Absolute stereochemistry.

ΙT 374557-49-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative)

(compds. and methods for regulating bacterial growth and pathogenesis) 374557-49-0 HCAPLUS

RN

2-Cyclopenten-1-one, 4,5-dihydroxy-, (4S,5S)- (9CI) (CA INDEX NAME) CN

Absolute stereochemistry.

IT 979-92-0, S-Adenosylhomocysteine

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(compds. and methods for regulating bacterial growth and pathogenesis)

RN 979-92-0 HCAPLUS

CN L-Homocysteine, S-(5'-deoxyadenosin-5'-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 15912-98-8, S-Ribosylhomocysteine

RL: BPR (Biological process); BSU (Biological study, unclassified); MFM (Metabolic formation); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process)

(compds. and methods for regulating bacterial growth and pathogenesis)

RN 15912-98-8 HCAPLUS

CN L-Homocysteine, S-(5-deoxy-D-ribos-5-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 273912-12-2 273912-13-3 273912-14-4

273912-15-5 273912-16-6 273912-17-7

273912-18-8 273912-19-9 374579-09-6

374579-10-9 374579-11-0 374579-12-1

374579-13-2

RL: PRP (Properties)

(unclaimed sequence; compds. and methods for regulating bacterial growth and pathogenesis)

RN 273912-12-2 HCAPLUS

CN 18: PN: WO0032152 PAGE: 101 unclaimed DNA (9CI) (CA INDEX NAME)

- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 273912-13-3 HCAPLUS

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- CN 19: PN: WO0032152 PAGE: 101 unclaimed DNA (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 273912-14-4 HCAPLUS
- CN 20: PN: WO0032152 PAGE: 126 unclaimed DNA (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 273912-15-5 HCAPLUS
- CN 21: PN: WO0032152 PAGE: 126 unclaimed DNA (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 273912-16-6 HCAPLUS
- CN 22: PN: WO0032152 PAGE: 127 unclaimed DNA (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 273912-17-7 HCAPLUS
- CN 23: PN: WO0032152 PAGE: 127 unclaimed DNA (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 273912-18-8 HCAPLUS
- CN 24: PN: WO0032152 PAGE: 127 unclaimed DNA (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 273912-19-9 HCAPLUS
- CN 25: PN: WO0032152 PAGE: 127 unclaimed DNA (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 374579-09-6 HCAPLUS
- CN 17: PN: WOO185664 FIGURE: 12 unclaimed sequence (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 374579-10-9 HCAPLUS
- CN 18: PN: WOO185664 FIGURE: 12 unclaimed sequence (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 374579-11-0 HCAPLUS
- CN 19: PN: WO0185664 FIGURE: 12 unclaimed sequence (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 374579-12-1 HCAPLUS
- CN 20: PN: WO0185664 FIGURE: 12 unclaimed sequence (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
- RN 374579-13-2 HCAPLUS
- CN 21: PN: WOO185664 FIGURE: 12 unclaimed sequence (9CI) (CA INDEX NAME)
- *** STRUCTURE DIAGRAM IS NOT AVAILABLE ***